Wilmar Myanmar Riceland Limited
Co. Reg. No. 110133190

MIC, 441/28/12

The Chairman
Myanmar Investment Commission
No. 1, Thitsar Road, Yankin Township,
Yangon Region, The Republic of the Union of Myanmar

Date:28 December 2018

Dear Sirs,

RE: SUBMISSION OF PROPOSAL WITH SUPPORTING DOCUMENTS

We hereby submit revised documents based on the comments of the Proposal Assessment Team ("**PAT**") meeting held on 10 December 2018 to our investment proposal submitted to the Myanmar Investment Commission on 5 December 2018.

If you need further information, please do not hesitate to conduct us.

Thank you in advance for your kind co-operation on this matter.

Yours faithfully,
For and on behalf of Wilmar Myanmar Riceland Limited

Name	Mr. Sun DHhai
Designation	Director

WILMAR INVESTMENT HOLDINGS PTE. LTD.

(Singapore Company No: 201221334H)
56, Neil Road, Singapore 088830

To:

The Chairman

Myanmar Investment Commission

Date: 05 DEC 2018

Subject: **Application for the permission to make an investment and the granting of tax exemptions and reliefs in accordance with the Republic of the Union of Myanmar Investment Law.**

1. Our company, Wilmar Investment Holdings Pte. Ltd. ("**WIH**") hereby respectfully applies for permission to make an investment through our associated company Wilmar Myanmar Riceland Limited ("**WMRL**") in the Republic of the Union of Myanmar in accordance with the Republic of the Union of Myanmar Investment Law.

2. Wilmar International Limited ("**Wilmar**"), our holding company and the intended ultimate substantial shareholder of WMRL, is a company incorporated and existing under the laws of Singapore. Wilmar, founded in 1991 and headquartered in Singapore, is today Asia's leading agribusiness group. Wilmar is ranked amongst the largest listed companies by market capitalisation on the Singapore Exchange. Wilmar is also a Fortune 500 company and has been ranked first in the food production industry in the 2013 FORTUNE World's Most Admired Companies. Wilmar's business activities include oil palm cultivation, oilseeds crushing, edible oils refining, sugar milling and refining, specialty fats, oleochemicals, biodiesel and fertilisers manufacturing as well as flour and rice milling.

3. WIH, through WMRL, is desirous to invest in the construction of a modern integrated rice processing complex with associated utility buildings ("**Project**") on 121,406 square meters (approximately 30 acres) (the "**Project Land**") of Thilawa Port Area plots no. 20 and 21 (of 74.1308 acres) and the parcel of land of 26 acres adjoining Thilawa Port Area plots no. 21 and 22, located at Yangon Region, Thilawa Port Area, that is currently leased by Wilmar Myanmar Port Terminals (Thilawa) Limited ("**WMPTTL**") from the Myanma Port Authority ("**MPA**") pursuant to a Land Lease Agreement dated 21 December 2014 as amended by its Amendment Agreement dated 16 May 2018. The modern integrated rice processing complex is intended to have a rice mill with a production capacity of 1,800 metric tons per day ("**TPD**") and a 400 TPD rice bran oil extraction plant and refinery.

4. It is intended that WMRL will enter into a Sub-Lease Agreement with WMPTTL for the sub-lease of the Project Land for a period of 50 (fifty) years, and with the approval of the MIC, WMRL and WMPTTL may extend the said sub-lease period for an additional 2 (two) further 10 (ten) year terms for a total sub-lease period of 70 (seventy) years.

5. WMRL will invest in a world class rice milling plant and modern paddy collection centres. WMRL will undertake modern techniques to procure and store paddy which will enable farmers getting transparent and fair pricing for their produce. With its highly efficient production system, WMRL's production costs will be significantly lower, thus producing high quality products for Myanmar's people at affordable prices. In addition to the foregoing, WMRL intends to implement fair and efficient pricing strategies that will spur competitiveness in Myanmar's food industry. WMRL will utilise local paddy and rice which will generate substantial long-term benefits for Myanmar's agricultural community, and hopefully drive the development of the local agricultural sector. WMRL will employ more than 200 people with deliberate minimization of expatriates from the outset of the Project. WMRL will provide a conducive working environment and learning opportunities for these local employees.

6. In spite of our core strengths, we are well aware of the importance of local on-the-ground knowledge and industry experience. As such, for the Project, we will work with:

   6.1 Staple Food Supply Company Limited, a Myanmar registered private limited company which is 100% owned by Myanmar nationals (Mr.Myint Maw, Mr.Ne Lin and Mr.Kyaw Thar Oo) to leverage on their local knowledge and connections, in particular their deep knowledge and extensive local experience in logistics and distribution in Myanmar; and

   6.2 RLG Holding Limited is a Hong Kong registered company. RLG Holding Limited will hold 40% of Riceland International Limited, a leading rice miller and exporter in Thailand, with the shareholders of RLG Holding Limited having a direct interest in part of the balance shareholding in Riceland International Limited. Riceland International Limited is consistently ranked in the Top 10 of rice exporters in Thailand and in the Top 5 of parboiled rice exporters. This company was the first to bring American parboiling technology to Thailand which enabled Thai parboiled rice to compete with American rice and secured many markets such as South Africa and Middle East which used to be dominated by American rice. The company is also the major supplier of parboiled rice to European customers for over 3 decades. Riceland International Limited operates a rice upgrading/export facility with capacity of 3,000 mt per day and two rice mills with capacity of 1,000 mt per day. Its chairman, Mr. Vichai Sriprasert, is well-known in the world rice industry and is regularly quoted by leading publications on the topic of rice. He also served two terms as the President of the Thai Rice Exporters' Association and is current the Honorary President of the Association. He also serves on the Board of the Thai Rice Foundation under Royal Patronage and Thai National Shippers' Council. It is proposed that Mr. Vichai Sriprasert will sit on the board of WMRL.

7. WIH and RLG Holdings Limited will each be making a 40% (Forty Per Cent) foreign investment of US$12,720,000 (United States Dollars Twelve Million Seven Hundred and Twenty Thousand)

totalling US$25,440,000 (United States Dollars Twenty Five Million Four Hundred Forty Thousand) for the Project, and with Staple Food Supply Company Limited making the balance 20% (Twenty Per Cent) local investment of US$6,360,000 (United States Dollars Six Million Three Hundred and Sixty Thousand) in accordance with the Republic of the Union of Myanmar Investment Law.

8. We attach herewith a set of supporting documentation for the investment permit application and the related granting of tax exemptions and reliefs, details as follows :

Table of Annexes

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Annex XIX	Fire Protection Plan
Annex XX	Notarised and legalised copy of Certificate of Incorporation of WIH, copy of Certificate of Incorporation of Riceland (the "Certificate") together with its Letter of Undertaking to provide notarised and legalised Certificate and copy of Certificate of Incorporation of Staple Food
Annex XXI	Copies of National Registration Card or Passport of the representatives of the shareholders
Annex XXII	Business Profiles of Corporate Shareholders
Annex XXIII	Summary of Proposed Investment

9. We respectfully request the MIC, to issue WMRL an investment permit and to also grant tax exemptions and reliefs for the implementation of the Project according to the Republic of the Union of Myanmar Investment Law.

Yours faithfully,

Director
Wilmar Investment Holdings Pte. Ltd.

[CC: The Managing Director
Myanma Port Authority]

Annex I

Proposal Form of the Investor/Promoter for the investment to be made in the Republic of the Union of Myanmar (Form 2)

ပုံစံ (၂)

အဆိုပြုချက်

သို့

ဥက္ကဋ္ဌ
မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်

စာအမှတ် ၊
ရက်စွဲ ၊ ၂၀ ခုနှစ်၊ လ ရက်

ကျွန်တော်/ကျွန်မသည် မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုဥပဒေပုဒ်မ ၃၆ နှင့်အညီ ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်အတွင်း ရင်းနှီးမြှုပ်နှံမှုပြုလုပ်လိုပါသဖြင့် ခွင့်ပြုပါရန် အောက်ပါအချက်အလက်များကိုဖော်ပြ၍ လျှောက်ထားအပ်ပါသည်-

၁။ ရင်းနှီးမြှုပ်နှံသူ၏ -

(က) အမည် ....

(ခ) အဖအမည် ....

(ဂ) နိုင်ငံသားစိစစ်ရေးကတ်အမှတ်/ ....
နိုင်ငံကူးလက်မှတ်အမှတ် ....

(ဃ) နိုင်ငံသား ....

(င) နေရပ်လိပ်စာ ....

(၁) ပြည်တွင်း ....

(၂) ပြည်ပ ....

(စ) တယ်လီဖုန်း /ဖက်စ် ....

(ဆ) အီးမေးလ်လိပ်စာ ....

(ဇ) ပင်မကုမ္ပဏီအမည် ....

(ဈ) ပင်မကုမ္ပဏီတည်ရှိရာလိပ်စာ ....

(ည) လုပ်ငန်းအမျိုးအစား ....

Form (2)

Proposal Form

To,

Chairman

Myanmar Investment Commission

Reference No.

Date.

I do apply for the permission to make investment in the Republic of the Union of Myanmar in accordance with the Section 36 of the Myanmar Investment Law by furnishing the following particulars:-

1. The Investor's:-
   - (a) Name ....
   - (b) Father's name ....
   - (c) ID No./National Registration Card No./Passport No. ....
   - (d) Citizenship ....
   - (e) Address: ....
     - (i) Address in Myanmar ....
     - (ii) Residence abroad ....
   - (f) Phone /Fax ....
   - (g) E -mail address ....
   - (h) Name of principle organization ....
   - (i) Type of Business ....
   - (j) Principle company's address: ....

     ....

2. If the investment business is formed under Joint Venture, partners':-
   - (a) Name ....
   - (b) Father's name ....
   - (c) ID No./ National Registration Card No./Passport No. ....
   - (d) Citizenship ....

Form (2)

Proposal Form for the investment to be made

in the Republic of the Union of Myanmar

To,

Chairman

Myanmar Investment Commission

Reference No.

Date.

I do apply for the permission to make investment in the Republic of the Union of Myanmar in accordance with the Section 36 of the Myanmar Investment Law by furnishing the following particulars:-

1. The Investor's:-

(a) Name

Wilmar Investment Holdings Pte. Ltd. ("WIH")

(b) Father's name

Not Applicable

(c) ID No. / National Registration Card No./ Passport No.

Company Registration No. 201221334H

(d) Citizenship

Incorporated in Singapore

(e) Address:

(i) Address in Myanmar

Not applicable

(ii) Residence abroad

56 Neil Road, Singapore 088830

(f) Phone/ Fax:

Phone: +65 6216 0244 / Fax: +65 6536 2192

(g) E-mail address:

legal@wilmar.com.sg

(h) Name of principal organization

Wilmar International Limited (the ultimate holding company of WIH)

(i) Type of business

Investment Holding

(j) Principal Company's Address:

56 Neil Road, Singapore 088830

2 (b) If the investment business is formed under joint venture, partner's:-

(a) Name

RLG Holding Limited ("Riceland") represented by Vichai Sriprasert

(b) Father's name

Not Applicable

(c) ID No. / National Registration Card No. / Passport No.

Company Registration No. 2753158

(d) Citizenship

Incorporated in Hong Kong

(e) Address:

(i) Address in Myanmar

Not Applicable

(ii) Residence abroad

Suite 501 Tai Sang Bank Building, 130-132 Des Voeux Road, Central, Hong Kong

(f) Parent company

Not Applicable

(g) Parent company's address

Not Applicable

2 (c) If the investment business is formed under joint venture, partner's:-

(a) Name

Staple Food Supply Company Limited ("Staple Food") represented by U Myint Maw

(b) Father's name

Not Applicable

(c) ID No. / National Registration Card No. / Passport No.

1008 of 2016 – 2017 (YGN)

(d) Citizenship

Incorporated in The Republic of the Union of Myanmar

(e) Address:

(i) Address in Myanmar

No. 36, Thein Phyu Road, Pazundaung Township, Yangon, Myanmar

(ii) Residence abroad

Not Applicable

(f) Parent company

Not Applicable

(g) Parent company's address

Not Applicable

Note: The following documents need to be attached according to the above paragraph (1) and (2):-

(1) Company registration certificate (Copy);

Annex XX: Notarised and legalised copy of Certificate of Incorporation of WIH, copy of Certificate of Incorporation of Riceland (the "Certificate") together with its Letter of Undertaking to provide notarised and legalised Certificate and copy of Certificate of Incorporation of Staple Food

(2) National Registration Card (Copy) and passport (Copy);

Annex XXI: Copies of National Registration Card or Passport of the representatives of the shareholders

(3) Evidence about the business and financial conditions of the participants of the proposed investment business;

Annex XXII: Business Profiles of Corporate Shareholders

Annex IX: Support Letter from bank in respect of Wilmar International Limited, an ultimate parent company of WIH, Support Letter from bank in respect of Riceland and Bank Statements of Staple Food

3. If the investor don't apply for permission to make investment by himself/herself, the applicant;

(a) Name

Not Applicable

(b) Name of Contact Person

(if applicant is business organization)

Not Applicable

Remark: To submit the official letter of legal representative as attachment

(c) ID No. / National Registration Card No./ Passport No.

Not Applicable

(d) Citizenship

Not Applicable

(e) Address in Myanmar:

Not Applicable

(f) Phone/ Fax:

Not Applicable

(g) E-mail:

Not Applicable

4. Type of proposed investment business:

Production, Sales and Distribution of Rice and Rice related Products (broken rice, rice flour, rice bran, rice bran oil, rice husk)

5. Type of business organization to be formed:-

- One Hundred Percent
  Not Applicable
- Joint Venture (To attach the draft of JV agreement)

  40% of shareholding by WIH and 40% of shareholding by Riceland and 20% of shareholding by Staple Food

  Please refer to Annex XVI for Joint Venture Agreement (Draft).
- Type of Contractual basis (To attach contract (agreement) draft)
  Not Applicable

6. List of shareholders

No	Name of Shareholder	Citizenship	Share Percentage
1.	***Wilmar Investment Holdings Pte. Ltd.***	***Incorporated in Singapore***	***40%***
2.	***RLG Holding Limited***	***Incorporated in Hong Kong***	***40%***
3.	***Staple Food Supply Company Limited***	***Incorporated in The Republic of the Union of Myanmar***	***20%***

7. Particulars of Company Incorporation

(a) Authorized capital

Not Applicable

(b) Type of share

Ordinary Shares

(c) Number of shares

3,180,000 ordinary shares of USD 10 each, of which 1,272,000 ordinary shares will be held by WIH and 1,272,000 ordinary shares will be held by Riceland and 636,000 ordinary shares will be held by Staple Food.

Note: Memorandum of Association and Articles of Association of the Company shall be submitted with regard to above paragraph 7.

Please refer to Annex X for Certificate of Incorporation and List of Directors of WMRL.

8. Particulars of Paid-up Capital of the investment business

(a) Amount /percentage of local capital to be contributed — *USD 6,360,000 / 20%*

(b) Amount /percentage of foreign capital — *USD 25,440,000 / 80%*

to be brought in

*Loan to be taken onshore (in Kyats/equivalent Kyats) — *USD 74,200,000*

Total — ***USD 106,000,000***

(c) Annually or period of proposed capital to be brought in

Within 18 months from the date of issuance of MIC permit

Please refer to Annex II - Investment Programme (in cash, in kind, loan).

(d) Value/ Amount of investment

USD 106,000,000

(e) Investment Period

Fifty (50) years commencing from the date of issuance of the MIC permit for the Project (as defined in the cover letter), with an option to extend for two (2) further ten (10) year terms with the approval of the MIC. For the purpose of the Project, Wilmar Myanmar Port Terminals (Thilawa) Limited will sub-lease 121,406 square meters (approximately 30 acres) of land to Wilmar Myanmar Riceland Limited for a duration not longer than the period of its Head Lease with the MPA.

(f) Construction/ Preparation period.

Within 24 months from the later of (a) the date of issuance of the MIC Permit; or (b) the date when all other relevant licenses from the relevant governmental department and/ or governmental organization to commence construction as per Rule 139 of Myanmar Investment Rules are obtained

Note: Describe with annexure if it is required for the specific condition in regard to the above Paragraph 8 (e).

9. Detailed list of foreign capital to be brought in –

		USD Equivalent	Kyat Equivalent

		Total	Equity in USD	Loan in equivalent Kyat	Total
(a)	Foreign currency (Type and value)	***25,440,000***	***25,440,000***	***NIL***	***40,042,560,000***
(b)	Machinery and equipment and Value (to enclose detailed list)	***NIL***	***NIL***	***NIL***	***NIL***
(c)	The value of initial raw materials and other similar materials (to enclose detail list)	***NIL***	***NIL***	***NIL***	***NIL***
(d)	Value of license, intellectual property, industrial design, trade mark, patent, etc.	***NIL***	***NIL***	***NIL***	***NIL***
(e)	Value of technical know-how	***NIL***	***NIL***	***NIL***	***NIL***
(f)	Others (eg: Construction materials)	***NIL***	***NIL***	***NIL***	***NIL***

Exchange Rate: USD 1 = Kyat 1,574

Remark: The evidence of permission shall be submitted for the above paragraph 9(d) and (e).

10. Details of local capital to be contributed –

		USD Equivalent			Kyat Equivalent
		Total	**Equity in USD**	**Loan in equivalent Kyat**	**Total**
(a)	Amount	***6,360,000***	***6,360,000***	***NIL***	***10,010,640,000***
(b)	Value of machinery and equipment (to enclose the detailed list)	***NIL***	***NIL***	***NIL***	***NIL***
(c)	Value or Rental rate of land and buildings	***NIL***	***NIL***	***NIL***	***NIL***
(d)	Cost of building construction	***NIL***	***NIL***	***NIL***	***NIL***
(e)	Value of furniture and assets (to enclose detailed list)	***NIL***	***NIL***	***NIL***	***NIL***
(f)	Value of initial raw material (to enclose the detailed list)	***NIL***	***NIL***	***NIL***	***NIL***
(g)	Others	***NIL***	***NIL***	***NIL***	***NIL***

Exchange Rate: USD 1 = Kyat 1,574

11. Particulars of Loans-

- Loan (Local)

  Kyat(s) – ***USD 74,200,000 (in its equivalent in Kyats)***

  US$ - ***Not applicable***

- Loan (abroad) - ***Not applicable***

  US$ - ***Not applicable***

12. Particulars about the Investment Business-

(a) Investment location(s)/place

Thilawa Port Area plots no. 20 and 21 (of 74.1308 acres) and the parcel of land of 26 acres adjoining Thilawa Port Area plots no. 21 and 22, located at Yangon Region, Thilawa Port Area

(b) Type and area requirement for land or land and building

(i) Location

Thilawa Port Area plots no. 20 and 21 (of 74.1308 acres) and the parcel of land of 26 acres adjoining Thilawa Port Area plots no. 21 and 22, located at Yangon Region, Thilawa Port Area

(ii) Area and number of land/building

121,406 square meters or approximately 30 acres in equivalent

(iii) Owner of the land

(aa) Name/company/department

Lessor: ***Myanma Port Authority***

Lessee: ***Wilmar Myanmar Port Terminals (Thilawa) Limited***

(bb) National Registration Card No

Lessor: ***Not Applicable***

Lessee: ***Certificate of Incorporation No. 797 FC / 2013-2014 dated 16th January 2014***

Permit No. ***729/2014 dated 18th December 2014 as amended on on 27th February 2015***

(cc) Address

Lessor: ***10 Pansodan Street, Kyauktada Township, Yangon 11182, Myanmar***

Lessee: ***Plot No. 20 & 21, Thilawa Port Development Zone, Kyauktan Township, Yangon, Myanmar***

(iv) Type of land

Port land leased by Wilmar Myanmar Port Terminals (Thilawa) Limited from Myanma Port Authority of 10 Pansodan Street, Kyauktada Township, Yangon 11182

(v) Period of land lease contract

Fifty (50) years with an option to extend for two (2) further ten (10) year terms with the approval of the MIC

(vi) Lease period

50 years commencing from the date of the physical handover of the relevant sub-leased land of 30 acres by Wilmar Myanmar Port Terminals (Thilawa) Limited to Wilmar Myanmar Riceland Limited as evidenced by a handover receipt, plus an option to extend for 2 further 10-year terms with the approval of the MIC. Provided that such total 70-year lease period does not extend beyond the lease period set out in the Land Lease Agreement dated 21st December 2014 between the Myanma Port Authority as amended by its Amendment Agreement dated 16 May 2018, as the head lessor of the sub-leased land, and Wilmar Myanmar Port Terminals (Thilawa) Limited, which is the lessee of the sub-leased land under the said Land Lease Agreement.

(vii) Lease rate

(aa) Land

USD5.00 per square metre per year or approximately USD0.4166 per square metre per month

USD20,235.00 per acre per year or approximately USD1,686.25 per acre per month

(bb) Building

Not Applicable

(viii) Ward

Not Applicable

(ix) Township

Kyauktan Township

(x) State/Region

Yangon

(xi) Lessee

(aa) Name/Name of Company/Department

Wilmar Myanmar Riceland Limited

(bb) Father's name

Not Applicable

(cc) Citizenship

Incorporated under the laws of the Republic of the Union of Myanmar

(dd) ID No./Passport No

Certificate of Incorporation No. 110433190

(ee) Residence Address

Plot No. 20 & 21, Thilawa Port Development Zone, Kyauktan Township, Yangon, Myanmar

Note: The following documents have to be enclosed for above Paragraph 12(b)

(i) to enclose land ownership and ownership evidences (except industrial zone) and land map;
Please refer to Annex XII: Build-Operate-Transfer Contract between Myanma Port Authority and Wilmar Myanmar Port Terminals (Thilawa) Limited dated 21 December 2014 and its Amendment Agreements dated 27 May 2016 and 16 May 2018; Annex XIII: Land Lease Agreement between Myanma Port Authority and Wilmar Myanmar Port Terminals (Thilawa) Limited dated 21 December 2014 and its Amendment Agreement dated 16 May 2018; and Annex XV: Maps / Drawings of the Project.

(ii) land lease agreement (drat);
Please refer to Annex XIV: Sub-Lease Agreement (Draft).

(c) Requirement of building to be constructed;

(i) Type/number of building

(ii) Area

Buildings: 15 nos.

1)	**Silo 15600 m^2**	**USD 4.70 million**
2)	**Intake tower 480 m^2**	**USD 0.90 million**
3)	**White rice warehouse 3100 m^2**	**USD 1.55 million**
4)	**Bran meal warehouse 1600 m^2**	**USD 0.80 million**
5)	**Bran Warehouse 3200 m^2**	**USD 1.20 million**
6)	**Husk silo 1000 m^2**	**USD 0.50 million**
7)	**Effluent Treatment plant 3465 m^2**	**USD 2.40 million**
8)	**Rice Bran crush plant 1344 m^2**	**USD 4.00 million**
9)	**Rice bran solvent extraction plant 2750 m^2**	**USD 5.00 million**
10)	**Water treatment plant 2100 m^2**	**USD 3.00 million**
11)	**Parboiling line 2500 m^2**	**USD 10.00 million**
12)	**White rice line 6000 m^2**	**USD 13.60 million**
13)	**White rice bins 2250 m^2**	**USD 2.30 million**
14)	**Power plant 10500 m^2**	**USD 30.00 million**
15)	**Firefighting house 1000 m^2**	**USD 0.67 million**

(d) Annual products to be produced / Services

The Company will be producing the following products throughout the entire investment period: ***Rice and Rice related products***

(e) Annual electricity requirement

73,930,000 KWH (Annually Average)

(f) Annual requirement of water supply

770,000 cubic meter (2109.589 cubic meter per day)

Please refer to Annex VI – Projected Utility Consumption Fuel, Electricity and Water.

13. Detailed information about financial standing –

(a) Name /company's name

(1) ***Wilmar Investment Holdings Pte. Ltd. (with Wilmar International Limited as its ultimate parent company)***

(Note: Per Annex IX (Support Letter from bank for Wilmar International Limited which confirms that Wilmar International Limited is a long-time business partner of the bank and will be able to provide the financial resources required to contribute to the capital of the Company. The relevant financial documents of WIH required for this application will thus be supplemented with relevant financial documents of Wilmar International Limited.)

(2) ***RLG Holding Limited***

(3) ***Staple Food Supply Company Limited***

(b) ID No./ National Registration Card No./Passport No.

(1) Wilmar International Limited (Company No. 199904785Z) / Wilmar Investment Holdings Pte. Ltd. (Company No. 201221334H)

(2) RLG Holding Limited (Company No. 2753158)

(3) Staple Food Supply Company Limited (Company No. 1008 of 2016-2017 (YGN))

(c) Bank Account No.

(1) Wilmar Investment Holdings Pte. Ltd.:
Bank Name: Oversea-Chinese Banking Corporation Limited
USD Account Number. 503-443798-301

(2) RLG Holding Limited: To be established and informed to the MIC in due course.

(3) Staple Food Supply Company Limited:
Bank Name: Myanma Foreign Trade Bank
Foreign Currency Account Number: 1DA0405556

Remark: To enclose bank statement from resident country or annual audit report of the principal company with regard to the above paragraph 13.

14. List of Employment:

Item	Designation/Rank	Citizen	Foreign	Total
a	Senior management (Managers, senior officials)	**NIL**	**5**	**5**
b	Other management level (Except from senior management)	**7**	**3**	**10**
c	Professionals	**5**	**6**	**11**
d	Technicians	**6**	**6**	**12**
e	Advisors	**5**	**6**	**11**
f	Skilled Labour	**34**	**NIL**	**34**
G	Workers	**133**	**NIL**	**133**
	Total	**190**	**26**	**216**

Please refer to Annex VIII – List of Local and Expatriate Personnel.

The following information shall be enclosed:-

(i) Social security and welfare arrangement for all employees;

Please refer to Annex XVII – Social Security & Welfare Plan.

(ii) Evaluation of environmental impact arrangements

Please refer to Annex XVIII –Environmental and Social Impacts Assessment Report and Annex XIX – Fire Protection Plan.

15 Describe whether other applications are being submitted together with the Proposal or not:

- Land Rights Authorization Application
  Please refer to Annex XI – Land Rights Authorisation Application.

- Tax Incentive Application

  Wilmar Myanmar Riceland Limited will submit Tax Incentive Application at such time when it is ready to receive each of the tax incentive available under Myanmar Investment Law.

16 Describe with annexure the summary of proposed investment.

Please refer to Annex XXIII – Summary of Proposed Investment.

Signature of the applicant

Name: ***Mr. Sun Dehai***

Title: ***Director***

Department/ Company (Seal/Stamp)

Wilmar Investment Holdings Pte. Ltd.

Date:--------------------

Annex XXIII

Summary of Proposed Investment (Rule 38)

1. Please describe any other person who has a significant indirect interest in the investment.

(a) Please describe an Enterprise or individual who are entitled to possess more than 10% of the profit distribution:

(1) Name

Wilmar International Limited

(2) Address

56 Neil Road, Singapore 088830

(3) Company Registration No.

199904785Z

(1) Name

Vichai Sriprasert

(2) Address

901/15-17 Moo 15
Bangna-Trad Road
Bangplee
Samutprakarn 10540
Thailand

(3) Company Registration No.

Passport No. AA7036761

(1) Name

Rosarin Sriprasert

(2) Address

901/15-17 Moo 15
Bangna-Trad Road
Bangplee
Samutprakarn 10540
Thailand

(3) Company Registration No.

Passport No. AA9164777

(b) If there is directly participated Subsidiary in carrying out the proposed investment, please describe the name of that companies;

(1) *Not Applicable*

2. The principal location or locations of the investment

Thilawa Port Area plots no. 20 and 21 (of 74.1308 acres) and the parcel of land of 26 acres adjoining Thilawa Port Area plots no. 21 and 22, located at Yangon Region, Thilawa Port Area

3. A description of the sector in which the investment is to be made and the activities and operations to be conducted:

Production, Sales and Distribution of Rice and Rice related Products (broken rice, rice flour, rice bran, rice bran oil, rice husk)

4. The proposed amount of the investment (in Kyat and US$)

(a)	Amount /percentage of local capital to be contributed	*USD 6.36million/Kyats 10,010,640,000*
(b)	Amount /percentage of foreign capital to be brought in	*USD 25.44 million/Kyats 40,042,560,000*
	*Loan to be taken onshore (in equivalent Kyats)	*USD 74.20 million /Kyats 116,790,800,000*
	Total	***USD 106million/ Kyats 166,844,000,000***

Exchange Rate: USD 1 = Kyat1,574

5. A description of the plan for the implementation of the investment including expected tameable:

(a) Construction or Preparatory Period (Describe MM/YY)

Within 24 months from the later of (a) the date of issuance of the MIC Permit; or (b) the date when all other relevant licenses from the relevant governmental department and/ or governmental organization to commence construction as per Rule 139 of Myanmar Investment Rules are obtained

(b) Commercial Operation Date (Describe MM/YY)

90 days after the completion of the Construction Period as per Rule 146 (b) and/or (c) of the Myanmar Investment Rules.

Notification for the completion of Construction Period and Commencement of Commercial Operation will be given to the MIC within 30 days after the end of the Construction Period as per Rule 140 and Rule 145 of the Myanmar Investment Rules.

6. Number of employees to be appointed:

(a)	**Local**	***(190) number (87.96) %***
(b)	**Foreign (Expert/Technicians)**	***(26) number (12.04) %***

7. Please specify the detailed list of foreign capital (Capital in-Cash and Capital in- Kinds) in Kyat and US$:

   (a) Capital in-cash to be brought in- ***USD 31.80 million/Kyats50,053,200,000***

   Exchange Rate: USD 1 = Kyat1,574

   (b) Capital in-kind to be brought in- ***Not Applicable***

Note: The investor may request the Commission to refrain from publishing commercial-in-confidential information of its investment.

We request the Commission to refrain from publishing commercial-in-confidential information of our investment.

Undertaking

I/ We hereby declare that the above statements are true and correct to the best of my/our knowledge and belief.

I/We fully understand that proposal may be denied or unnecessarily delayed if the applicant fails to provide required information to access by Commission for issuance of permit.

I/We hereby declare to strictly comply with terms and conditions set out by the Myanmar Investment Commission.

Signature of the applicant

Name: ***Mr. Sun Dehai***

Title: ***Director***

Department/ Company (Seal/Stamp)

Wilmar Investment Holdings Pte. Ltd.

Date:--------------------

ပုံစံ (၂)

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်အတွင်းရင်းနှီးမြှုပ်နှံမှုပြုလုပ်ရန်

ရင်းနှီးမြှုပ်နှံသူ၏အဆိုပြုချက်

သို့

ဥက္ကဋ္ဌ
မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်

စာအမှတ်၊
ရက်စွဲ၊ ၂၀ ခုနှစ်၊ လ၊ ရက်

ကျွန်တော်/ ကျွန်မသည်မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုဥပဒေပုဒ်မ၃၆နှင့် အညီ ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော် အတွင်း ရင်းနှီးမြှုပ်နှံမှုပြုလုပ်လိုပါသဖြင့် ခွင့်ပြုပါရန် အောက်ပါအချက်အလက်များကိုဖော်ပြ၍ လျှောက်ထား အပ်ပါသည်။

၁။ ရင်းနှီးမြှုပ်နှံသူ၏

(က) အမည်

Wilmar Investment Holdings Pte. Ltd. ("WIH")

(ခ) အဖအမည်

သက်ဆိုင်မှု မရှိပါ။

(ဂ) နိုင်ငံသားစိစစ်ရေးကတ်အမှတ်/ နိုင်ငံကူးလက်မှတ်အမှတ်

ကုမ္ပဏီမှတ်ပုံတင်အမှတ် ***201221334H***

(ဃ) နိုင်ငံသား

စင်ကာပူနိုင်ငံတွင်ဖွဲ့စည်းတည်ထောင်သည်။

(င) နေရပ်လိပ်စာ။

(၁) ပြည်တွင်း

သက်ဆိုင်မှု မရှိပါ။

(၂) ပြည်ပ

56 Neil Road, Singapore 088830

(စ) တယ်လီဖုန်း/ ဖက်စ်

တယ်လီဖုန်း +၆၅ ၆၂၁၆ ၀၂၄၄/ ဖက်စ် +၆၅ ၆၅၃၆ ၂၁၉၂။

(ဆ) အီးမေးလ်လိပ်စာ

legal@wilmar.com.sg

(ဇ) ပင်မကုမ္ပဏီအမည်

Wilmar International Limited (WIH၏ မူရင်းအစုများပိုင်ဆိုင်သည့်ကုမ္ပဏီ)

(ဈ) ပင်မကုမ္ပဏီတည်ရှိရာလိပ်စာ

56 Neil Road, Singapore 088830

(ည) လုပ်ငန်းအမျိုးအစား

ရင်းနှီးမြှုပ်နှံမှုဦးပိုင် ကုမ္ပဏီ

၂။(က) ဖက်စပ်ပြုလုပ်၍ရင်းနှီးမြှုပ်နှံလိုပါကရင်းနှီးမြှုပ်နှံသူနှင့်ဖက်စပ်ပြုလုပ်မည့်သူများ၏

(က) အမည်

RLG Holding Limited ("Riceland")

(ခ) အဖအမည်

သက်ဆိုင်မှု မရှိပါ။

(ဂ) နိုင်ငံသားစိစစ်ရေးကတ်အမှတ်/ နိုင်ငံကူးလက်မှတ်အမှတ်

ကုမ္ပဏီမှတ်ပုံတင်အမှတ် ***2753158***

(ဃ) နိုင်ငံသား

ဟောင်ကောင်နိုင်ငံတွင် ဖွဲ့စည်း တည်ထောင်သည်။

(င) နေရပ်လိပ်စာ။

(၁) ပြည်တွင်း

သက်ဆိုင်မှု မရှိပါ။

(၂) ပြည်ပ

Suite 501 Tai Sang Bank Building, 130-132 Des Voeux Road, Central, Hong Kong

(စ) ပင်မကုမ္ပဏီအမည်

သက်ဆိုင်မှု မရှိပါ။

(ဆ) ပင်မကုမ္ပဏီတည်ရှိရာလိပ်စာ

သက်ဆိုင်မှု မရှိပါ။

၂။(ခ) (က) အမည်

Staple Food Supply Company Limited ("Staple Food")

(ခ) အဖအမည်

သက်ဆိုင်မှု မရှိပါ။

(ဂ) နိုင်ငံသားစိစစ်ရေးကတ်အမှတ်/ နိုင်ငံကူးလက်မှတ်အမှတ်

ကုမ္ပဏီမှတ်ပုံတင်အမှတ် ***1008 of 2016 – 2017 (YGN)***

(ဃ) နိုင်ငံသား

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်တွင် ဖွဲ့စည်း တည်ထောင်သည်။

(င) နေရပ်လိပ်စာ။

(၁) ပြည်တွင်း

အမှတ် ၃၆၊ သိမ်ဖြူလမ်း၊ ပုဇွန်တောင်မြို့နယ်၊ ရန်ကုန်တိုင်းဒေသကြီး၊ ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်။

(၂) ပြည်ပ

သက်ဆိုင်မှု မရှိပါ။

(စ) ပင်မကုမ္ပဏီအမည်

သက်ဆိုင်မှု မရှိပါ။

(ဆ) ပင်မကုမ္ပဏီတည်ရှိရာလိပ်စာ

သက်ဆိုင်မှု မရှိပါ။

မှတ်ချက်။ အထက်အပိုဒ် ၁၊ ၂၊ တို့နှင့် စပ်လျဉ်း၍အောက်ပါအချက်များကိုပူးတွဲတင်ပြရန်

(၁) ကုမ္ပဏီမှတ်ပုံတင် အထောက်အထားများ (မိတ္တူ)

Annex XX: Notarised and legalised copy of Certificate of Incorporation of WIH, copy of Certificate of Incorporation of Riceland (the "Certificate") together with its Letter of Undertaking to provide notarised and legalised Certificate and copy of Certificate of Incorporation of Staple Food

(၂) နိုင်ငံသားစိစစ်ရေးကတ်အမှတ် (မိတ္တူ)/ နိုင်ငံကူးလက်မှတ်(မိတ္တူ)

Annex XXI: Copies of National Registration Card or Passport of the representatives of the shareholders

(၃) အဆိုပြုလုပ်ငန်းတွင်ပါဝင်လိုသူများ၏ လုပ်ငန်းပိုင်းနှင့် ငွေရေးကြေးရေး ဆိုင်ရာ အထောက်အထားများ-

Annex XXII: Business Profiles of Corporate Shareholders

Annex IX Support Letter from bank in respect of Wilmar International Limited, an ultimate parent company of WIH, Support Letter from bank in respect of Riceland and Bank Statements of Staple Food

၃။ ရင်းနှီးမြှုပ်နှံသူကိုယ်တိုင်လျှောက်ထားခြင်းမဟုတ်ပါကလျှောက်ထားသူ၏

(က) အမည်

သက်ဆိုင်မှု မရှိပါ။

(ခ) ဆက်သွယ်ရမည့်ပုဂ္ဂိုလ်အမည် (လျှောက်ထားသူသည် စီးပွားရေးအဖွဲ့အစည်းဖြစ်ပါက)

သက်ဆိုင်မှု မရှိပါ။

မှတ်ချက်။ တရားဝင်ကိုယ်စားလှယ်လွှဲစာပူးတွဲတင်ပြရန်၊

(ဂ) နိုင်ငံသားစိစစ်ရေးကတ်အမှတ် / နိုင်ငံကူးလက်မှတ်အမှတ်

သက်ဆိုင်မှု မရှိပါ။

(ဃ) နိုင်ငံသား

သက်ဆိုင်မှု မရှိပါ။

(င) မြန်မာနိုင်ငံတွင်နေထိုင်သည့်နေရပ်လိပ်စာ

သက်ဆိုင်မှု မရှိပါ။

(စ) တယ်လီဖုန်း/ ဖက်စ်

သက်ဆိုင်မှု မရှိပါ။

(ဆ) အီးမေးလ်လိပ်စာ

သက်ဆိုင်မှု မရှိပါ။

၄။ ရင်းနှီးမြှုပ်နှံ ပြုလုပ်လိုသည့်လုပ်ငန်းအမျိုးအစား

ဆန်နှင့် ဆန်ဆက်စပ်ထုတ်ကုန်များ (ဆန်ကွဲ၊ ဆန်မှုန့်၊ ဆန်ဖွဲ၊ ဆန်ဖွဲနုဆီ၊ စပါးခွံ) ထုတ်လုပ်ခြင်း၊ ရောင်းချခြင်း နှင့် ဖြန့်ဖြူးခြင်း။

၅။ ဖွဲ့စည်းမည့်စီးပွားရေးအဖွဲ့အစည်းပုံသဏ္ဍာန်

- ရာခိုင်နှုန်းပြည့်

သက်ဆိုင်မှု မရှိပါ။

- ဖက်စပ်ပြုလုပ်ခြင်း (ဖက်စပ်စာချုပ်မူကြမ်းတင်ပြရန်)

***WIH** မှအစုရှယ်ယာ ၄၀%၊ **Riceland** မှအစုရှယ်ယာ ၄၀% နှင့် **Staple Food** မှအစုရှယ်ယာ ၂၀% ပါဝင်မည် ဖြစ်ပါသည်။*

***Annex XVI - Joint Venture Agreement (Draft)**အား ကြည့်ရှုပါ။*

- အခြားသဘောတူညီချက်ပုံစံတစ်မျိုးမျိုးဖြင့်ဆောင်ရွက်ခြင်း (စာချုပ်မူကြမ်းတင်ပြရန်)

သက်ဆိုင်မှု မရှိပါ။

၆။ အစုရှယ်ယာရှင်များစာရင်း

စဉ်	အစုရှယ်ယာရှင်အမည်	နိုင်ငံသား	အစုရှယ်ယာပိုင်ဆိုင်မှု%
၁။	**Wilmar Investment Holdings Pte. Ltd.**	စင်ကာပူနိုင်ငံတွင်ဖွဲ့စည်းတည်ထောင်သည်။	၄၀ %
၂။	**RLG Holding Limited**	ဟောင်ကောင်နိုင်ငံတွင် ဖွဲ့စည်းတည်ထောင်သည်။	၄၀ %
၃။	**Staple Food Supply Company Limited**	ပြည်ထောင်စုသမ္မတ မြန်မာနိုင်ငံတော်တွင်ဖွဲ့စည်း တည်ထောင်သည်။	၂၀%

၇။ ကုမ္ပဏီဖွဲ့စည်းခြင်းနှင့်သက်ဆိုင်သောအချက်အလက်များ

(က) ခွင့်ပြုမတည်ငွေရင်း

သက်ဆိုင်မှု မရှိပါ။

(ခ) အစုရှယ်ယာအမျိုးအစား

သာမန်အတန်းအစား အစုရှယ်ယာများ

(ဂ) အစုရှယ်ယာဝင်သူများကထည့်ဝင်မည့်အစုရှယ်ယာပမာဏ

အစုရှယ်ယာတစ်စုလျှင်အမေရိကန်ဒေါ်လာ ၁၀၀တန်ဖိုးရှိသော သာမန်အတန်းအစား အစုရှယ်ယာ စုစုပေါင်း ၃,၁၈၀,၀၀၀ တွင် WIH မှ အစုရှယ်ယာ ၁,၂၇၂,၀၀၀ နှင့် Riceland မှ အစုရှယ်ယာ ၁,၂၇၂,၀၀၀ ရယူပြီး Staple Food မှ အစု ရှယ်ယာ ၆၃၆,၀၀၀အား ရယူမည်ဖြစ်ပါသည်။

မှတ်ချက်။ သင်းဖွဲ့မှတ်တမ်း/ သင်းဖွဲ့စည်းမျဉ်း သို့မဟုတ် ဖွဲ့စည်းပုံအခြေခံစည်းမျဉ်းပူး တွဲတင်ပြရန်၊

Annex X - for Certificate of Incorporation and List of Directors of WMRL အား ကြည့်ရှုပါ။

(၈)။ မတည်ငွေရင်းနှင့် သက်ဆိုင်သည့်အချက်အလက်များ

(က) ပြည်တွင်းမှထည့်ဝင်မည့်မတည်ငွေရင်း ပမာဏ/ရာခိုင်နှုန်း	အမေရိကန်ဒေါ်လာ	၆,၃၆၀,000 /၂၀%
(ခ) နိုင်ငံခြားမှယူဆောင်လာမည့်မတည်ငွေရင်း ပမာဏ/ရာခိုင်နှုန်း	အမေရိကန်ဒေါ်လာ	၂၅,၄၄၀,၀၀၀/၈၀%
ပြည်တွင်းမှရယူမည့်ချေးငွေ (မြန်မာကျပ်ငွေ/မြန်မာကျပ်ငွေနှင့်ညီမျှသော)	အမေရိကန်ဒေါ်လာ	၇၄,၂၀၀,၀၀၀
စုစုပေါင်း	အမေရိကန်ဒေါ်လာ	၁၀၆,၀၀၀,၀၀၀

(ဂ) အဆိုပြုမတည်ငွေရင်းနှစ်အလိုက်ထည့်ဝင်မည့်အခြေအနေ/ယူဆောင်လာမည့်ကာလ

မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်မှ ခွင့်ပြုမိန့်ထုတ်ပေးသည့်နေ့မှ ၁၈လအတွင်း

Annex II - Investment Programme (in cash, in kind, loan) အားကြည့်ရှုပါ။

(ဃ) ရင်းနှီးမြှုပ်နှံမှုတန်ဖိုး/ပမာဏ

အမေရိကန်ဒေါ်လာ ၁၀၆,၀၀၀,၀၀၀

(င) ရင်းနှီးမြှုပ်နှံမှုပြုလုပ်လိုသည့်သက်တမ်း

ရင်းနှီးမြှုပ်နှံမှု (အပေါ်စာတွင်ဖော်ပြထားသည့်အတိုင်း) အတွက် မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင် မှ ခွင့်ပြုမိန့် ထုတ်ပေးသည့်နေ့မှ စ၍ နှစ်ပေါင်း ၅၀ နှင့် မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်၏ ခွင့်ပြုချက်ဖြင့်ထပ်မံသက်တမ်းတိုးမည့် ၁၀ နှစ် နှစ်ကြိမ်သက်တမ်း၊ ရင်းနှီးမြှုပ်နှံမှုအတွက် **Wilmar Myanmar Port Terminals (Thilawa) Limited** သည် ၁၂၁,၄၀၆ စတုရန်းမီတာ (ခန့်မှန်းခြေမြေဧက ၃၀ဧက) ကို **Wilmar Myanmar Riceland Limited** သို့

MPAဖြင့်ချုပ်ဆိုထားသော မူလမြေငှားရမ်းသက်တမ်းထက်မပိုသော သက်တမ်းကာလဖြင့် ငှားရမ်းမည်ဖြစ်ပါသည်။

(စ) ရင်းနှီးမြှုပ်နှံမှုလုပ်ငန်းတည်ဆောက်မှုကာလသို့မဟုတ်ပြင်ဆင်မှုကာလ

(က) မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှု ကော်မရှင်မှခွင့်ပြုမိန့်ထုတ်ပေးသောနေ့ (သို့မဟုတ်) (ခ) မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှု နည်းဥပဒေ ၁၃၉ အရ တည်ဆောက်မှုစတင်ရန် သက်ဆိုင်ရာအစိုးရဌာနများ သို့မဟုတ် အစိုးရအဖွဲ့အစည်းများ မှ သက်ဆိုင်ရာလိုင်စင်များ အားလုံးရရှိပြီးသည့်နေ့ တို့မှ နောက်ကျရာနေ့၏ ၂၄ လအတွင်း

မှတ်ချက်။ အပိုဒ် ၈ (င) နှင့် စပ်လျဉ်း၍ ထူးခြားသည့် အခြေအနေ ရှိပါက နောက်ဆက်တွဲဖြင့် ဖော်ပြပါရန်

၉။ နိုင်ငံခြားမှယူဆောင်တင်သွင်းလာမည့် မတည်ငွေရင်း၏အသေးစိတ်စာရင်း

		အမေရိကန်ဒေါ်လာနှင့်ညီမျှသောငွေ			*မြန်မာ ကျပ်ငွေနှင့် ညီမျှသော ငွေ*
		စုစုပေါင်း	*အမေရိကန် ဒေါ်လာနှင့်ညီမျှသော ရှယ်ယာထည့်ဝင်မှု*	*မြန်မာကျပ် ငွေနှင့်ညီမျှသောချေးငွေ*	*စုစုပေါင်း*
(က)	နိုင်ငံခြားငွေ (အမျိုးအစားနှင့် တန်ဖိုးပမာဏ)	*၂၅,၄၄၀,၀၀၀*	*၂၅,၄၄၀,၀၀၀*	*မရှိပါ*	*၄၀,၀၄၂,၅၆၀,၀၀၀*
(ခ)	စက်ပစ္စည်းများ (စက်ကိရိယာများစသည့်ပစ္စည်းတို့၏ တန်ဖိုးပမာဏ)	*မရှိပါ*	*မရှိပါ*	*မရှိပါ*	*မရှိပါ*
(ဂ)	ကနဦးကုန်ကြမ်းပစ္စည်းများနှင့် အခြားအလားတူပစ္စည်းများ၏ တန်ဖိုးပမာဏ(အသေးစိတ်စာရင်းပူးတွဲ တင်ပြရန်)	*မရှိပါ*	*မရှိပါ*	*မရှိပါ*	*မရှိပါ*
(ဃ)	လိုင်စင်၊ တီထွင်မှုပိုင်ဆိုင်ခွင့်၊ စက်မှုဒီဇိုင်း၊ ကုန်အမှတ်တံဆိပ်၊ မူပိုင်ခွင့်စသည့် အသိဉာဏ်ဆိုင်ရာ ပစ္စည်းများ ကို တန်ဖိုးဖြတ်နိုင်သော	*မရှိပါ*	*မရှိပါ*	*မရှိပါ*	*မရှိပါ*

	အခွင့်အရေးများ၏ တန်ဖိုး ပမာဏ				
(င)	ကျွမ်းကျင်မှုနည်းပညာ ရပ်များ၏ တန်ဖိုးပမာဏ	မရှိပါ	မရှိပါ	မရှိပါ	မရှိပါ
(စ)	အခြား (ဥပမာ - ဆောက်လုပ်ရေးလုပ်ငန်း သုံး ပစ္စည်း များ)	မရှိပါ	မရှိပါ	မရှိပါ	မရှိပါ

ငွေလဲလှယ်နှုန်းအမေရိကန် ၁ ဒေါ်လာလျှင်မြန်မာကျပ်ငွေ ၁, ၅၇၄ ဖြင့်တွက်ချက်ထားသည်။

မှတ်ချက်။ အပိုဒ် ၉ (ဃ) (င) တို့နှင့် စပ်လျဉ်း၍အသုံးပြုခွင့်အထောက်အထားများပူးတွဲတင်ပြရန်။

၁၀။ ပြည်တွင်းမှထည့်ဝင်မည့် မတည်ငွေရင်း၏ အသေးစိတ်စာရင်း

		အမေရိကန်ဒေါ်လာနှင့်ညီမျှသောငွေ			မြန်မာ ကျပ်ငွေနှင့် ညီမျှသော ငွေ
		စုစုပေါင်း	အမေရိကန် ဒေါ်လာရင်း နှီးမြှုပ်နှံမှု	မြန်မာကျပ် ငွေနှင့်ညီမျှ သောဈေးငွေ	စုစုပေါင်း
(က)	ငွေပမာဏ	၆,၃၆၀,၀၀၀	၆,၃၆၀,၀၀၀	မရှိပါ	၁၀,၀၁၀,၆၄၀,၀၀၀
(ခ)	စက်ပစ္စည်းများ စက်ကိရိယာများ တန်းဖိုးပမာဏ (အသေးစိတ်စာရင်း ပူးတွဲတင်ပြရန်)	မရှိပါ	မရှိပါ	မရှိပါ	မရှိပါ
(ဂ)	မြေအဆောက်အအုံတန်ဖိုး သို့မဟုတ် ငှားရမ်းခ	မရှိပါ	မရှိပါ	မရှိပါ	မရှိပါ
(ဃ)	အဆောက်အအုံဆောက်လု ပ်မှု ကုန်ကျစားရိတ်	မရှိပါ	မရှိပါ	မရှိပါ	မရှိပါ
(င)	ပရိဘောဂနှင့် လုပ်ငန်းသုံးပစ္စည်းများ တန်းဖိုးပမာဏ (အသေးစိတ်စားရင်း ပူးတွဲတင်ပြရန်)	မရှိပါ	မရှိပါ	မရှိပါ	မရှိပါ
(စ)	ကနဦးကုန်ကြမ်း ပစ္စည်းတန်ဖိုးပမာဏ (အသေးစိတ်စာ ရင်းပူးတွဲတင်ပြရန်)	မရှိပါ	မရှိပါ	မရှိပါ	မရှိပါ
(ဆ)	အခြား	မရှိပါ	မရှိပါ	မရှိပါ	မရှိပါ

ငွေလဲလှယ်နှုန်းအမေရိကန် ၁ ဒေါ်လာလျှင်မြန်မာကျပ်ငွေ ၁, ၅၇၄ ဖြင့်တွက်ချက်ထားသည်။

၁၁။ ချေးငွေနှင့်သက်ဆိုင်သည့် အချက်အလက်များ -

ဝ ပြည်တွင်းချေးငွေ

ကျပ်

အမေရိကန်ဒေါ်လာ ၇၄,၂၀၀,၀၀၀ နှင့်ညီမျှသောမြန်မာကျပ်ငွေ

အမေရိကန်ဒေါ်လာ

သက်ဆိုင်မှု မရှိပါ။

ဝ ပြည်ပချေးငွေ

အမေရိကန်ဒေါ်လာ

သက်ဆိုင်မှု မရှိပါ။

၁၂။ ဆောက်ရွက်မည့်စီးပွားရေးအဖွဲ့အစည်းနှင့်သက်ဆိုင်သောအချက်အလက်များ -

(က) ရင်းနှီးမြှုပ်နှံမှုပြုလုပ်မည့်ဒေသ (များ) / တည်နေရာ

သီလဝါဆိပ်ကမ်းဧရိယာ၊ ရန်ကုန်တိုင်းဒေသကြီး တွင်တည်ရှိသော သီလဝါဆိပ်ကမ်းဧရိယာမြေကွက်အမှတ် - ၂၀ နှင့် ၂၁ (မြေဧက ၇၄.၁၃၀၈) နှင့် သီလဝါဆိပ်ကမ်းဧရိယာမြေကွက်အမှတ် -၂၁ နှင့်၂၂တို့နှင့် ကပ်လျက် ၂၆ဧကရှိ မြေကွက်လပ်၊

(ခ) မြေသို့မဟုတ်မြေနှင့်အဆောက်အအုံနေရာ အမျိုးအစားနှင့်အကျယ်အဝန်းလိုအပ်ချက်

(၁) တည်နေရာ

သီလဝါဆိပ်ကမ်းဧရိယာ၊ ရန်ကုန်တိုင်းဒေသကြီး တွင်တည်ရှိသော သီလဝါဆိပ်ကမ်းဧရိယာမြေကွက်အမှတ် - ၂၀ နှင့် ၂၁ (မြေဧက ၇၄.၁၃၀၈) နှင့် သီလဝါဆိပ်ကမ်းဧရိယာမြေကွက်အမှတ် -၂၁ နှင့်၂၂တို့နှင့် ကပ်လျက် ၂၆ဧကရှိ မြေကွက်လပ်၊

(၂) မြေ/ အဆောက်အအုံအကျယ်အဝန်း၊ အရေအတွက်

၁၂၁,၄၀၆ စတုရန်းမီတာ သို့မဟုတ် ခန့်မှန်းခြေ ဧက ၃၀

(၃) လက်ရှိပိုင်ဆိုင်သူ

(ကက) အမည်/ ကုမ္ပဏီအမည်/ဌာန

အငှားချထားသူ - မြန်မာ့ဆိပ်ကမ်းအာဏာပိုင်

ငှားရမ်းသူ - Wilmer Myanmar Port Terminals (Thailand) Limited

(ခခ) နိုင်ငံသားစိစစ်ရေးကတ်အမှတ်

အငှားချထားသူ - သက်ဆိုင်မှု မရှိပါ။

အငှားချထားခြင်းခံရသူ - ကုမ္ပဏီမှတ်ပုံတင်အမှတ် - ၇၉၇/အက်(ဖ်)စီ/ ၂၀၁၃ - ၂၀၁၄ (၁၆ ဇန်နဝါရီလ ၂၀၁၄ခုနှစ်)၊

ခွင့်ပြုမိန့်အမှတ် - ၁၈ ဒီဇင်ဘာလ ၂၀၁၄ ရက်စွဲပါ ခွင့်ပြုမိန့်အမှတ် ၇၂၉/၂၀၁၄ နှင့် ၂၇ ဖေဖော်ဝါရီလ ၂၀၁၅ ရက်စွဲပါ ပြင်ဆင်ချက်

(ဂဂ) နေရပ်လိပ်စာ

အငှားချထားသူ- အမှတ် ၁၀၊ ပန်းဆိုးတန်းလမ်း၊ ကျောက်တံတားမြို့နယ်၊ ရန်ကုန်မြို့ ၁၁၁၈၂

အငှားချထားခြင်းခံရသူ- မြေကွက်အမှတ် - ၂၀ နှင့် ၂၁၊ သီလဝါမြို့ဖြိုးတိုးတက်ရေးဇုန်၊ ကျောက်တန်းမြို့နယ်၊ရန်ကုန်တိုင်းဒေသကြီး၊ ပြည်ထောင်စု သမ္မတ မြန်မာနိုင်ငံတော်။

(၄) မြေအမျိုးအစား

အမှတ် ၁၀၊ ပန်းဆိုးတန်းလမ်း၊ ကျောက်တံတားမြို့နယ်၊ ရန်ကုန်မြို့ ၁၁၁၈၂ ရှိ မြန်မာ့ဆိပ်ကမ်းအာဏာပိုင်ထံမှ Wilmer Myanmar Port Terminals (Thilawa) Limited မှ ငှားရမ်းထားသောဆိပ်ကမ်းမြေ

(၅) မြေငှားဂရန်ခွင့်ပြုကာလ

နှစ်ပေါင်း ၅၀ နှင့် မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်၏ ခွင့်ပြုချက်ဖြင့်ထပ်မံသက်တမ်းတိုးမည့် ၁၀နှစ် နှစ်ကြိမ် သက်တမ်း။

(၆) ငှားရမ်းမည့်ကာလ

***Wilmar Myanmar Port Terminals (Thilawa) Limited** မှ **Wilmar Myanmar Riceland Limited** သို့ သက်ဆိုင်ရာ ထပ်ဆင့်ငှားရမ်းသည့်မြေ ၃၀ဧကအား လွှဲအပ်ကြောင်းအထောက်အထားသက်သေဖြင့် လက်ရောက်လွှဲအပ်သည့်နေ့ မှ နှစ်ပေါင်း ၅၀ နှင့်အတူ မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှု ကော်မရှင်၏ခွင့်ပြုချက်ဖြင့်ထပ်မံသက်တမ်းတိုးမည့် ၁၀နှစ် နှစ်ကြိမ် သက်တမ်း။ သို့ရာတွင် အဆိုပါ စုစုပေါင်း ငှားရမ်းမည့်ကာလ နှစ်ပေါင်း၇၀ သည် ထပ်ဆင့်ငှားရမ်းသည့်မြေအတွက် မူလအငှားချထားသူဖြစ်သော မြန်မာ့ဆိပ်ကမ်းအာဏာပိုင် နှင့် အငှားချထားခြင်းခံရသူဖြစ်သော **Wilmar Myanmar Port Terminals (Thilawa) Limited** တို့အကြားချုပ်ဆိုထားသော ၂၀ ဒီဇင်ဘာလ ၂၀၁၄ ရက်စွဲပါ မြေငှားစာချုပ် နှင့် ၁၆ မေလ ၂၀၁၈*

တွင်ပြင်ဆင်ထားသောပြင်ဆင်ချက်စာချုပ်တွင်ဖော်ပြထားသောငှားရမ်းမည့်ကာလကို ကျော်လွန်၍မရပါ။

(၇) ငှားရမ်းခနှုန်းထား -

(ကက) မြေ -

တစ်နှစ်လျှင် တစ်စတုရန်းမီတာအတွက် အမေရိကန်ဒေါ်လာ ၅.၀၀ သို့မဟုတ် တစ်လလျှင် တစ်စတုရန်းမီတာအတွက် ခန့်မှန်းခြေ အမေရိကန်ဒေါ်လာ ၀.၄၁၆၆

တစ်နှစ်လျှင် တစ်ဧကအတွက် အမေရိကန်ဒေါ်လာ ၂၀,၂၃၅.၀၀ သို့မဟုတ် တစ်လလျှင် တစ်ဧကအတွက် ခန့်မှန်းခြေ အမေရိကန်ဒေါ်လာ ၁,၆၈၆.၂၅

(ခခ) အဆောက်အအုံ

သက်ဆိုင်မှု မရှိပါ။

(၈) ရပ်ကွက်

သက်ဆိုင်မှု မရှိပါ။

(၉) မြို့နယ်

ကျောက်တန်းမြို့နယ်

(၁၀) ပြည်နယ်/ တိုင်းဒေသကြီး

ရန်ကုန်တိုင်းဒေသကြီး

(၁၁) ငှားရမ်းမည့်ပုဂ္ဂိုလ်

(ကက) အမည်/ကုမ္ပဏီအမည်/ဌာန

Wilmar Myanmar Riceland Limited

(ခခ) အဖအမည်

သက်ဆိုင်မှု မရှိပါ။

(ဂဂ) နိုင်ငံသား

ပြည်ထောင်စုသမ္မတ မြန်မာနိုင်ငံတော်၏ ဥပဒေများအရ ဖွဲ့စည်းတည်ထောင်သည်။

(ဃဃ) နိုင်ငံကူးလက်မှတ်အမှတ်/နိုင်ငံသားစိစစ်ရေးကတ်အမှတ်

ကုမ္ပဏီမှတ်ပုံတင်အမှတ် ၁၁၀၄၃၃၁၉၀

(ငင) နေရပ်လိပ်စာ

မြေကွက်အမှတ်- ၂၀ နှင့် ၂၁၊ သီလဝါဖွံ့ဖြိုးတိုးတက်ရေးဇုန်၊ ကျောက်တန်းမြို့နယ်၊ ရန်ကုန် တိုင်းဒေသကြီး၊ ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်။

မှတ်ချက်။ အပိုဒ်၁၂ (ခ) နှစ်စပ်လျဉ်း၍အောက်ပါအချက်များ ပူးတွဲတင်ပြရန် -

(၁) မြေပိုင်ဆိုင်မှု/မြေဂရန် အထောက်အထား (စက်မှုဇုန်မှအပ) နှင့်မြေပုံ

Annex XII - Build-Operate-Transfer Contract between Myanma Port Authority and Wilmar Myanmar Port Terminals (Thilawa) Limited dated 21 December 2014 and its Amendment Agreements dated 27 May 2016 and 16 May 2018; Annex XIII - Land Lease Agreement between Myanma Port Authority and Wilmar Myanmar Port Terminals (Thilawa) Limited dated 21 December 2014 and its Amendment Agreement dated 16 May 2018 *နှင့်* ***Annex XV - Maps / Drawings of the Project****အား ကြည့်ရှုပါ။*

(၂) မြေငှားစာချုပ်(မူကြမ်း)

Annex XIV - Sub-Lease Agreement (Draft)*အား ကြည့်ရှုပါ။*

(ဂ) ဆောက်လုပ်မည့်အဆောက်အအုံလိုအပ်ချက်

(၁) အဆောက်အအုံအမျိုးအစား/အရေအတွက်

၁၅

(၂) အကျယ်အဝန်း

1)	**Silo 15600 m^2**	**USD 4.70 million**
2)	**Intake tower 480 m^2**	**USD 0.90 million**
3)	**White rice warehouse 3100 m^2**	**USD 1.55 million**
4)	**Bran meal warehouse 1600 m^2**	**USD 0.80 million**
5)	**Bran Warehouse 3200 m^2**	**USD 1.20 million**
6)	**Husk silo 1000 m^2**	**USD 0.50 million**
7)	**Effluent Treatment plant 3465 m^2**	**USD 2.40 million**
8)	**Rice Bran crush plant 1344 m^2**	**USD 4.00 million**
9)	**Rice bran solvent extraction plant 2750 m^2**	**USD 5.00 million**
10)	**Water treatment plant 2100 m^2**	**USD 3.00 million**
11)	**Parboiling line 2500 m^2**	**USD 10.00 million**
12)	**White rice line 6000 m^2**	**USD 13.60 million**
13)	**White rice bins 2250 m^2**	**USD 2.30 million**
14)	**Power plant 10500 m^2**	**USD 30.00 million**
15)	**Firefighting house 1000 m^2**	**USD 0.67 million**

(ဃ) နှစ်စဉ်ထုတ်လုပ်မည့် ကုန်ပစ္စည်း/ဝန်ဆောင်မှု

ကုမ္ပဏီသည်ရင်းနှီးမြှုပ်နှံမှုသက်တမ်းတလျှောက် အောက်ပါထုတ်ကုန်များအားထုတ်လုပ်မည်ဖြစ်ပါသည် - ဆန် နှင့် ဆန်ဆက်စပ်ထုတ်ကုန်များ။

(င) နှစ်စဉ်လျှပ်စစ်ဓါတ်အားလိုအပ်ချက်

နှစ်စဉ်ပျမ်းမျှ ၇၃, ၉၃၀, ၀၀၀ ကီလိုဝပ်

(စ) နှစ်စဉ်ရေလိုအပ်ချက်

(တစ်ရက်လျှင် ၂၁၀၉.၅၈၉ ကုဗမီတာ) တစ်နှစ်လျှင် ၇၇၀, ၀၀၀ ကုဗမီတာ၊

***Annex VI - Projected Utility Consumption Fuel, Electricity and Water** အား ကြည့်ရှုပါ။*

မှတ်ချက်။ အပိုဒ် ၁၂ (ခ) နှင့် စပ်လျဉ်း၍ အောက်ပါအချက်များ ပူးတွဲ တင်ပြရန် -

(၁) မြေပိုင်ဆိုင်မှု၊မြေဂရန် အထောက်အထား (စက်မှုဇုန်မှအပ)နှင့် မြေပုံ

(၂) မြေငှားစာချုပ် (မူကြမ်း)

၁၃။ ငွေကြေးပိုင်ဆိုင်မှုနှင့် ပတ်သက်၍အသေးစိတ်ဖော်ပြချက် -

(က) အမည်/ ကုမ္ပဏီအမည်

(၁) ***Wilmar Investment Holdings Pte. Ltd. (WIH) (Wilmar International Limited** သည် **WIH** ၏မူရင်းအစုများပိုင်ဆိုင်သည့်မိခင်ကုမ္ပဏီဖြစ်သည်။)*

*မှတ်ချက်- **Annex IX** တွင် ဖော်ပြချက်အရ **Wilmar International Limited** သည် ဘဏ်၏ ရည်ရွယ်စီးပွားဖက် အဖွဲ့အစည်းတစ်ခုဖြစ်ပြီး **Wilmar International Limited** အနေဖြင့် ကုမ္ပဏီ တွင် ထည့်ဝင်ရန် လိုအပ်သော ငွေကြေးအရင်းအမြစ်အား ထောက်ပံ့ပေးနိုင်ကြောင်း ဘဏ်မှ အတည်ပြု ထောက်ခံထားပါသည်။ သို့ပါ၍ ဤလျှောက်လွှာအတွက်လိုအပ်သော **WIH** ၏ငွေကြေးဆိုင်ရာ အထောက်အထားစာရွက်များအား **Wilmar International Limited** ၏ငွေကြေးဆိုင်ရာအထောက်အထားစာရွက်များဖြင့် ပံ့ပိုးဖော်ပြသွားပါမည်။*

(၂) ***RLG Holding Limited***

(၃) ***Staple Food Supply Company Limited***

(ခ) နိုင်ငံသားစိစစ်ရေးကတ်အမှတ်/ နိုင်ငံကူးလက်မှတ်အမှတ်

(၁) ***Wilmar International Limited:** ကုမ္ပဏီမှတ်ပုံတင်အမှတ် **199904785Z / Wilmar Investment Holdings Pte. Ltd.:** ကုမ္ပဏီမှတ်ပုံတင်အမှတ် **201221334H***

(၂) **RLG Holding Limited:** ကုမ္ပဏီမှတ်ပုံတင်အမှတ် **2753158**

(၃) **Staple Food Supply Company Limited** ကုမ္ပဏီမှတ်ပုံတင်အမှတ် **1008 of 2016 – 2017 (YGN)**

(ဂ) ဘဏ်စာရင်းအမှတ်

(၁) **Wilmar Investment Holdings Pte. Ltd.:**
Bank Name: Oversea-Chinese Banking Corporation Limited
USD Account Number. 503-443798-301

(၂) **RLG Holding Limited:**
စာရင်းဖွင့်လှစ်မည်ဖြစ်ပြီး ၊ မြန်မာနိုင်ငံ ရင်းနှီးမြှုပ်နှံမှုကော်မတီ သို့အကြောင်းကြားမည်ဖြစ်ပါသည်။

(၃) **Staple Food Supply Company Limited:**

Bank Name: Myanma Foreign Trade Bank
Foreign Currency Account Number: 1DA0405556

(မိခင်နိုင်ငံရှိဘဏ်ထောက်ခံချက် သို့မဟုတ် မိခင်ကုမ္ပဏီ၏စာရင်းစစ်ပြီးသည့်နှစ်ချုပ်စာရင်း ပူးတွဲတင်ပြရန်)။

၁၄။ ဆောင်ရွက်မည့် စီးပွားရေးအဖွဲ့အစည်းတွင်လိုအပ်မည့်ဝန်ထမ်းများစာရင်း

စဉ်	အဆင့်အတန်း	မြန်မာနိုင်ငံသား	နိုင်ငံခြားသား	စုစုပေါင်း
(က)	အကြီးတန်းစီမံခန့်ခွဲမှု (မန်နေဂျာများ၊ အဆင့်မြင့်အရာရှိများ)	မရှိပါ	၅	၅
(ခ)	အခြားအဆင့်စီမံခန့်ခွဲမှု (အကြီးတန်းစီမံခန့်ခွဲမှုမှအပ	၇	၃	၁၀
(ဂ)	သက်မွေးဝမ်းကျောင်းပညာရှင်များ	၅	၆	၁၁
(ဃ)	နည်းပညာနှင့်ဆက်စပ်သည့် သက်မွေးပညာရှင်	၆	၆	၁၂
(င)	အကြံပေး	၅	၆	၁၁
(စ)	ကျွမ်းကျင်လုပ်သား	၃၄		၃၄
(ဆ)	အခြေခံလုပ်သား	၁၃၃		၁၃၃
	စုစုပေါင်း	၁၉၀	၂၆	၂၁၆

Annex VIII – List of Local and Expatriate Personnel အား ကြည့်ရှုပါ။

မှတ်ချက်။ အောက်ဖော်ပြပါ ဖော်ပြချက်များပူးတွဲဖော်ပြရန်

(၁) လုပ်သားများ၏လူမှုဖူလုံရေး၊ သက်သာချောင်ချိမှုဆောင်ရွက်မည့် အစီအမံများ

Annex XVII – Social Security & Welfare Plan *အား ကြည့်ရှုပါ။*

(၂) ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်းပြုလုပ်မည့် အစီအမံများ

Annex XVIII – Environmental and Social Impacts Assessment Report *နှင့်* ***Annex XIX – Fire Protection Plan*** *အား ကြည့်ရှုပါ။*

၁၅။ အဆိုပြုချက်နှင့်အတူအောက်ဖော်ပြပါ လျှောက်လွှာများကို တင်ပြလျှောက်ထားခြင်းရှိ/မရှိဖော်ပြရန် -

- မြေအသုံးပြုခွင့်လျှောက်ထားလွှာ

  Annex XI – Land Rights Authorisation Application *အား ကြည့်ရှုပါ။*

- အခွန်ကင်းလွတ်ခွင့် သို့မဟုတ် သက်သာခွင့်လျှောက်ထားလွှာ

  Wilmar Myanmar Riceland Limited *သည် မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုဥပဒေတွင် ဖော်ပြထားသော အခွန်ကင်းလွတ်ခွင့်များကို သက်ဆိုင်ရာ အခွန်ကင်းလွတ်ခွင့်အားခံစားရန်အသင့်ဖြစ်သောအချိန်များတွင် လျှောက်ထားသွားပါမည်။*

၁၆။ အဆိုပြုရင်းနှီးမြှုပ်နှံမှုလုပ်ငန်းအကျဉ်းချုပ်အားနောက်ဆက်တွဲဖြင့် ဖော်ပြရန်။

Annex XXIII – Summary of Proposed Investment *အား ကြည့်ရှုပါ။*

လျှောက်ထားသူလက်မှတ်

အမည် *Mr. Sun Dehai*

ရာထူး *Director*

ဌာန/ကုမ္ပဏီတံဆိပ် *Wilmar Investment Holdings Pte. Ltd.*

ရက်စွဲ

အဆိုပြုရင်းနှီးမြှုပ်နှံမှုလုပ်ငန်းအကျဉ်းချုပ် (နည်းဥပဒေ ၃၈)

၁။ ရင်းနှီးမြှုပ်နှံမှုတွင် တိုက်ရိုက်ဖြစ်စေ၊ သွယ်ဝိုက်၍ဖြစ်စေ အကျိုးစီးပွားသိသာထင်ရှားစွာ ပါဝင်သော အခြားပုဂ္ဂိုလ်များဖော်ပြရန် -

(က) ရင်းနှီးမြှုပ်နှံသူမှရရှိမည့်အမြတ်ငွေ၏ ၁၀% နှင့်အထက်ကို ပိုင်ဆိုင်ခွင့်ရှိသည့် သို့မဟုတ် ထိန်းချုပ်ခွင့်ရှိသည့် လုပ်ငန်း၏ -

(၁) အမည်

Wilmar International Limited

(၂) ဆက်သွယ်ရမည့်လိပ်စာ

56 Neil Road, Singapore 088830

(၃) မှတ်ပုံတင်အမှတ်

199904785

(၁) အမည်

Vichai Sriprasert

(၂) ဆက်သွယ်ရမည့်လိပ်စာ

901/15-17 Moo 15
Bangna-Trad Road
Bangplee
Samutprakarn 10540
Thailand

(၃) မှတ်ပုံတင်အမှတ်

Passport No. AA7036761

(၁) အမည်

Rosarin Sriprasert

(၂) ဆက်သွယ်ရမည့်လိပ်စာ

901/15-17 Moo 15
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Bangplee

Samutprakarn 10540
Thailand

(၃) မှတ်ပုံတင်အမှတ်

Passport No. AA9164777

(ခ) ခွင့်ပြုမည့်ရင်းနှီးမြှုပ်နှံလုပ်ငန်း ဆောင်ရွက်ရာတွင်တိုက်ရိုက်ပါဝင်သည့် လက်အောက်ခံကုမ္ပဏီများ ရှိလျှင်အဆိုပါကုမ္ပဏီများ၏ အမည်ကိုဖော်ပြရန် -

မရှိပါ။

၂။ ရင်းနှီးမြှုပ်နှံမှု၏ အဓိကတည်နေရာ သို့မဟုတ်တည်နေရာများ

သီလဝါအထူးစီးပွားရေးဇုန်၊ ရန်ကုန်တိုင်းဒေသကြီး တွင်တည်ရှိသော သီလဝါဆိပ်ကမ်းဧရိယာမြေကွက်အမှတ် - ၂၀ နှင့် ၂၁ (မြေဧက ၇၄.၁၃၀၈) နှင့် သီလဝါဆိပ်ကမ်းဧရိယာမြေကွက်အမှတ် -၂၁ နှင့်၂၂တို့နှင့် ကပ်လျက် ၂၆ဧကရှိ မြေကွက်လပ်၊

၃။ ရင်းနှီးမြှုပ်နှံမှုလုပ်ငန်း ပြုလုပ်မည့်ကဏ္ဍနှင့် ဆောင်ရွက်မည့်စီးပွားရေးလုပ်ငန်းများဖော်ပြချက်

ဆန်နှင့် ဆန်ဆက်စပ်ထုတ်ကုန်များ (ဆန်ကွဲ၊ ဆန်မှုန့်၊ ဆန်ဖွဲ၊ ဆန်ဖွဲနုဆီ၊ စပါးခွံ) ထုတ်လုပ်ခြင်း၊ ရောင်းချခြင်း နှင့် ဖြန့်ဖြူးခြင်း။

၄။ အဆိုပြုထားသော ရင်းနှီးမြှုပ်နှံမှုပမာဏ (မြန်မာကျပ်နှင့်အမေရိကန်ဒေါ်လာတို့ဖြင့်ဖော်ပြရန်)

(က)ပြည်တွင်းမှထည့်ဝင်မည့်မတည်ငွေရင်း ပမာဏ/ရာခိုင်နှုန်း	*အမေရိကန်ဒေါ်လာ၆.၃၆သန်း/ ကျပ်* *၁၀,၀၁၀,၆၄၀,၀၀၀*
(ခ)နိုင်ငံခြားမှယူဆောင်လာမည့်မတည်ငွေရင်း ပမာဏ/ရာခိုင်နှုန်း	*အမေရိကန်ဒေါ်လာ ၂၅.၄၄ သန်း/ကျပ်* *၄၀,၀၄၂,၅၆၀,၀၀၀*
ပြည်တွင်းမှရယူမည့်ချေးငွေ *(မြန်မာကျပ်ငွေ/မြန်မာကျပ်ငွေနှင့်ညီမျှသော)*	*အမေရိကန်ဒေါ်လာ၇၄.၂၀သန်း/ကျပ်* *၁၁၆,၇၉၀,၈၀၀,၀၀၀*
စုစုပေါင်း	*အမေရိကန်ဒေါ်လာ ၁၀၆သန်း၊ ကျပ် ၁၆၆,၈၄၄,၀၀၀,၀၀၀*

ငွေလဲလှယ်နှုန်းအမေရိကန် ၁ ဒေါ်လာလျှင်မြန်မာကျပ်ငွေ ၁, ၅၇၄ ဖြင့်တွက်ချက်ထားသည်။

၅။ ရင်းနှီးမြှုပ်နှံမှု အကောင်အထည်ဖော်မည့် ခန့်မှန်းအချိန်ဇယား အပါအဝင် အစီအစဉ်ဖော်ပြချက် -

(က) တည်ဆောက်ရေးကာလ သို့မဟုတ် ပြင်ဆင်မှုကာလ (နှစ်၊လတို့ဖြင့်ဖော်ပြရန်)

(က) မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှု ကော်မရှင်မှခွင့်ပြုမိန့်ထုတ်ပေးသောနေ့ (သို့မဟုတ်) (ခ) မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှု နည်းဥပဒေ ၁၃၉ အရ တည်ဆောက်မှုစတင်ရန် သက်ဆိုင်ရာအစိုးရဌာနများ

သို့မဟုတ် အစိုးရအဖွဲ့အစည်းများ မှ သက်ဆိုင်ရာလိုင်စင်များ အားလုံးရရှိပြီးသည့်နေ့ တို့မှ နောက်ကျရာနေ့၏ ၂၄ လအတွင်း

(ခ) စီးပွားဖြစ်စတင်မည့်ကာလ (နှစ်၊လတို့ဖြင့်ဖော်ပြရန်)

မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုနည်းဥပဒေပုဒ်မ၁၄၆(ခ) သို့မဟုတ် (ဂ)အရ တည်ဆောက်မှုကာလ ပြီးဆုံးပြီးနောက်ရက်ပေါင်း (၉၀) အတွင်း

တည်ဆောက်မှုကာလ ပြီးဆုံးကြောင်းနှင့်စီးပွားဖြစ်စတင်ဆောင်ရွက်ကြောင်း အကြောင်းကြားခြင်းကို မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုနည်းဥပဒေပုဒ်မ၁၄၀ နှင့် ၁၄၅တို့အရ တည်ဆောက်မှုကာလ ပြီးဆုံးပြီးနောက်ရက်ပေါင်း (၃၀) အတွင်းအကြောင်းကြားပါမည်။

၆။ ခန့်ထားမည့်အလုပ်သမားဦးရေ

(က) ပြည်တွင်း

(၁၉၀) ယောက်

(ခ) ပြည်ပ (ပညာရှင်/ကျွမ်းကျင်သူ)

(၂၆) ယောက်

၇။ ပြည်ပမှ ပြည်တွင်းသို့ ယူဆောင်လာမည့် မတည် ရင်းနှီးမြှုပ်နှံမှုများတွင် ငွေသားဖြင့် ယူဆောင်မှုပမာဏ (Capital in-Cash)၊ ရင်းနှီးပစ္စည်းအဖြစ် ယူဆောင်လာမည့် ရင်းနှီးငွေပမာဏ (Capital in-Kinds) တို့အားတိကျစွာခွဲခြားသတ်မှတ်ဖော်ပြပေးရန် (မြန်မာကျပ်နှင့်အမေရိကန်ဒေါ်လာတို့ဖြင့် ဖော်ပြရန်) –

(က) ငွေသားဖြင့်ယူဆောင်မှုပမာဏ

အမေရိကန်ဒေါ်လာ ၃၁.၈၀ သန်း / မြန်မာကျပ်ငွေ ၅၀,၀၅၃,၂၀၀,၀၀၀

(ခ) ပစ္စည်းအဖြစ်ယူဆောင်လာမည့်ရင်းနှီးငွေပမာဏ

သက်ဆိုင်မှုမရှိပါ။

ငွေလဲလှယ်နှုန်းအမေရိကန် ၁ ဒေါ်လာလျှင်မြန်မာကျပ်ငွေ ၁,၅၇၄ ဖြင့်တွက်ချက်ထားသည်။

မှတ်ချက်။ ရင်းနှီးမြှုပ်နှံသူသည်ရင်းနှီးမြှုပ်နှံမှုနှင့်သက်ဆိုင်သောလျှို့ဝှက်ထိန်းသိမ်းရမည့် သတင်းအချက်အလက်များအား ထုတ်ပြန်ခြင်းမှရှောင်ကြဉ်ရန် ကော်မရှင်ထံတင်ပြတောင်းဆိုနိုင်သည်။

ကျွန်ုပ်တို့၏ရင်းနှီးမြှုပ်နှံမှုနှင့်သက်ဆိုင်သောလျှို့ဝှက်ထိန်းသိမ်းရမည့် သတင်းအချက်အလက်များအား ထုတ်ပြန်ခြင်းမှရှောင်ကြဉ်ပေးပါရန်ကော်မရှင်သို့ မေတ္တာရပ်ခံတောင်းဆိုအပ်ပါသည်။

ကတိဝန်ခံချက်

အထက်ဖော်ပြပါ လျှောက်ထားသူမှပေးအပ်သည့်အချက်အလက်များအားလုံးသည်မှန်ကန်မှုရှိကြောင်းအာမခံပါသည်။

ဤအဆိုပြုချက်တွင် ခွင့်ပြုမိန့်ထုတ်ပေးရန်အတွက်ကော်မရှင်မှ စိစစ်ရာ၌လိုအပ်သည့်အချက်အလက်များကိုလျှောက်ထားသူကပေးအပ်ရန် ပျက်ကွက်ပါကအဆိုပြုချက်ကို ငြင်းပယ်ခြင်း သို့မဟုတ် စိစစ်ရာ၌ မလိုလားအပ်သည့် နှောင့်နှေးကြန့်ကြာခြင်းတို့ ဖြစ်ပေါ်နိုင်ကြောင်းကောင်းစွာသဘောပေါက်နားလည်ပါသည်။

မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်မှချမှတ်မည့်စည်းမျဉ်းစည်းကမ်းများကိုလည်းလိုက်နာမည် ဖြစ်ကြောင်းဝန်ခံကတိပြုပါသည်။

လျှောက်ထားသူလက်မှတ်

အမည် *Mr. Sun Dehai*

ရာထူး *Director*

ဌာန/ကုမ္ပဏီတံဆိပ် *Wilmar Investment Holdings Pte. Ltd.*

ရက်စွဲ

Annex II

Investment Programme (in cash, in kind, loan)

Annex II
Investment Programme

		USD Equivalent	
Capital Injection in the form of Share Capital	:	31,800,000	30%
Capital Injection in the form of Loans (in Kyats)	:	74,200,000	70%
to fund	:		
Total Capital Expenditure	:	106,000,000	100%

Period	Capital Injection in Cash (Share Issue)	Drawdowns of Loans in USD equivalent
Month 1	6,000,000	851,146
Month 2		7,274,207
Month 3		7,950,193
Month 4		10,129,814
Month 5	10,000,000	10,613
Month 6		6,645,313
Month 7		5,851,676
Month 8		10,490,604
Month 9	6,000,000	2,212,362
Month 10		8,169,938
Month 11		4,731,483
Month 12		5,569,717
Month 13		4,312,935
Month 14	9,800,000	
Month 15		
Month 16		
Month 17		
Month 18		
Total	31,800,000	74,200,000
	30%	70%

Annex III

Imported Construction Materials

Annex III
Imported Construction Materials

S/N	Description	Country of Origin	Quantity	Unit	Unit Price USD	Total USD
	Construction Materials					19,747,810.00
	Total					**19,747,810.00**

Construction Materials

S/N	Description	Country of Origin	Quantity	Unit	Unit Price USD	Total USD
1	**Prestress Spun Pile**					
1.1	**PSC Pile D-300-600mm/RCC Square pile**					**7,560,000.00**
	300-600 mm Spum Pile	Malaysia/Vietnam/Indonesia/ Thailand/China/Others	180,000.00	meters	42.00	7,560,000.00
2	**Structure / Building Materials**					
2.1	**Steel & Other Construction Materials**					
2.1.1	**Rice Mill**					**8,300,000.00**
	Steel Structure and Accessories	China/Thailand/Japan/Switzerland/others	3,000.00	ton	1,200.00	3,600,000.00
	Decorate material	China/Thailand/Japan/Switzerland/others	1.00	lot	2,100,000.00	2,100,000.00
	rebar	China/Thailand/Japan/Switzerland/others	4,000.00	ton	650.00	2,600,000.00
2.1.2	**Rice Bran Oil**					**1,727,810.00**
	Steel Structure and Accessories	China/Thailand/Japan/Switzerland/others	898.00	ton	1200	1,077,600.00
	pressure plate, color plate, stainless steel gutter, steel grid plate Etc.)	China/Thailand/Japan/Switzerland/others	1.00	Lot	100000	100,000.00
	Fire proof coating	China/Thailand/Japan/Switzerland/others	1.00	Nos	120000	120,000.00
	steam reducing valve	China/Thailand/Japan/Switzerland/others	2.00	Nos	20000	40,000.00
	steel plate, pipe	China/Thailand/Japan/Switzerland/others	100.00	ton	800	80,000.00
	steel plate, pipe(stainless)	China/Thailand/Japan/Switzerland/others	50.00	ton	2000	100,000.00
	Accessories & Building Supporting Facilities	China/Thailand/Japan/Switzerland/others	1.00	Lot	100000	100,000.00
	Bolt and nuts	China/Thailand/Japan/Switzerland/others	1.00	Nos	10000	10,000.00
	Painting	China/Thailand/Japan/Switzerland/others	18,220.00	KG	5.5	100,210.00
2.1.3	**Silo**					**360,000.00**
	Silo Intake Tower	China/Thailand/Japan/Switzerland/others	300.00	ton	1,200	360,000.00
2.1.4	**Boiler and Power Plant**					**1,800,000.00**
	Steel Structure and Accessories (Boiler and Power Plant)		1,500.00	Ton	1200	1,800,000.00
					Total	19,747,810.00

Annex IV

Imported Machinery and Equipment

Annex IV

Summary Price List for Rice Milling Complex

Imported Machinery and Equipment

S/N	DESCRIPTOPM	QUANTITY	UNIT PRICE USD	TOTAL USD
1	Machinery and Equipment	1	83,870,580.77	83,870,580.77
	Total			**83,870,580.77**

Machinery and Equipment

S/N	DESCRIPTION	QUANITY	UNIT PRICE USD	TOAL USD
1.1	**Rice Milling Plant (Mechanical, Electrical and Lab)**			**32,196,677.11**
	1.1.1 Cleaning and Hulling Section	1	3,988,017.03	3,988,017.03
	1.1.2 Whiteness Sorting Section	1	4,046,137.82	4,046,137.82
	1.1.3 Product Workshop	1	6,823,517.97	6,823,517.97
	1.1.4 By-product Process Equipment	1	3,627,621.85	3,627,621.85
	1.1.5 Finished packaging and stacking system	1	3,725,073.60	3,725,073.60
	1.1.6 Related Process Equipment	1	3,473,387.41	3,473,387.41
	1.1.7 finished products, By-products and grain warehouse	1	2,231,300.00	2,231,300.00
	1.1.8 Lab Equipment	1	305,067.89	305,067.89
	1.1.9 Parboiled rice plant	1	3,976,553.54	3,976,553.54
1.2	**Rice Bran Oil Plant (Mechanical, Electrical and Lab)**			**7,081,846.51**

	1.2.1 Preparation Workshop	1	1,456,935.69	1,456,935.69
	1.2.2 Extraction Workshop	1	2,562,872.31	2,562,872.31
	1.2.3 Packaging Workshop	1	326,282.15	326,282.15
	1.2.4 Transport	1	269,169.08	269,169.08
	1.2.5 Miscella Refining	1	1,879,392.20	1,879,392.20
	1.2.6 Lab Equipment	1	187,195.08	187,195.08
	1.2.7 Acidulation Equipment	1	400,000.00	400,000.00
1.3	**Silo and Accessories**	1	18,031,896.86	**18,031,896.86**
1.4	**Boiler, Turbine and Accessories**			**8,661,970.00**
	1.4.1 Boiler	1	2,844,770.00	2,844,770.00
	1.4.2 Turbine	1	2,630,850.00	2,630,850.00
	1.4.3 Rice husk delivery system	1	1,050,100.00	1,050,100.00
	1.4.4 Ash system	1	226,290.00	226,290.00
	1.4.5 Slag removal system	1	214,360.00	214,360.00
	1.4.6 Thermal control system	1	1,695,600.00	1,695,600.00
1.5	**Water Treatment System**	1	3,366,100.00	**3,366,100.00**
1.6	**Wastewater Treatment System**	1	700,760.60	**700,760.60**
1.7	**Fire Fighting System**	1	1,473,551.51	**1,473,551.51**
1.8	**Electrical Power, Lighting, Security and Safety, HVAC Systems**	1	11,497,778.18	**11,497,778.18**
1.9	**Ancillary Machinery**	1	860,000.00	**860,000.00**

1.1 BREAKDOWN (RICE MILL ELECTRICAL & LAB EQUIPMENTS)

S/N	ITEM	HS Code	Unit	QUANTITY	CURRENCY	SPECIFICATION	MODEL	UNIT PRICE (USD)	TOTAL (USD)
1.1.1	**Cleaning and Hulling Section**								**3,988,017.03**
1	CHAIN CONVEYER	8428.20.10.00	Nos	33	USD		25-30T/H	9,461.08	312,215.64
2	BUCKET ELEVATOR	8428.39.10.00	Nos	1	USD		30T/H	28,919.67	28,919.67
3	DRUM SIEVE	8437.80.51.00	Nos	6	USD		15-30T/H	14,920.00	89,520.00
4	FLOW METER	9026.10.30.00	Nos	1	USD		25-40T/H	14,621.60	14,621.60
5	VERTICAL SUCTION CHANNEL	8414.51.91.00	Set	2	USD		12-15T/H	5,222.00	10,444.00
6	SIEVE +VERTICAL SUCTION CHANNEL	8414.51.91.00	Set	9	USD		12-15T/H	14,621.60	131,594.40
7	VIBERATE SIEVE +VERTICAL SUCTION CHANNEL	8414.51.91.00	Set	8	USD		12-15T/H	8,206.00	65,648.00
8	BUCKET ELEVATOR	8428.39.10.00	Nos	1	USD		30T/H	25,776.12	25,776.12
9	MAGNET	8437.10.10.00	Nos	1	USD			10,891.60	10,891.60
10	CHAIN CONVEYER	8428.20.10.00	Nos	1	USD		25-30T/H	9,461.08	9,461.08
11	AUTOMATIC VALVE	8481	Nos	141	USD			460.00	64,860.00
12	DISTRIBUTOR	8423.30.10.00	Nos	6	USD		25-30T/H	4,476.00	26,856.00
13	DESTONER	8437.10.10.00	Nos	10	USD		8-10T/H	29,863.72	298,637.18
14	CHAIN CONVEYER	8428.20.10.00	Nos	1	USD		TGSS20	9,461.08	9,461.08
15	DESTONER	8437.10.10.00	Nos	2	USD		8-10T/H	29,863.72	59,727.44
16	CHAIN CONVEYER	8428.20.10.00	Nos	1	USD		25-30T/H	9,461.08	9,461.08

17	CHAIN CONVEYER	8428.20.10.00	Nos	1	USD		25-30T/H	9,461.08	9,461.08
18	THICKNESS DEGREE	8437.10.10.00	Nos	6	USD		10-15T/H	23,468.41	140,810.48
19	CHAIN CONVEYER	8428.20.10.00	Nos	1	USD		25-30T/H	9,461.08	9,461.08
20	BUCKET ELEVATOR	8428.39.10.00	Nos	1	USD		30T/H	4,128.36	4,128.36
21	DESTONER	8437.10.10.00	Nos	3	USD		2-4T/H	29,863.72	89,591.16
22	FLOW METER	9026.10.30.00	Nos	1	USD		25-40T/H	4,809.31	4,809.31
23	MAGNET	8437.10.10.00	Nos	11	USD			522.20	5,744.20
24	PADDY HUSKING	8437.10.10.00	Nos	30	USD		3-5T/H	23,045.74	691,372.20
25	CHAIN CONVEYER	8428.20.10.00	Nos	1	USD		25-30T/H	9,461.08	9,461.08
26	CHAIN CONVEYER	8428.20.10.00	Nos	1	USD		25-30T/H	9,461.08	9,461.08
28	FLOW METER	9026.10.30.00	Nos	2	USD		25-40T/H	14,621.60	29,243.20
29	BUCKET ELEVATOR	8428.39.10.00	Nos	6	USD		30T/H	4,493.90	26,963.42
30	THICKNESS DEGREE	8437.10.10.00	Nos	9	USD		10-15T/H	24,174.00	217,566.00
31	CHAIN CONVEYER	8428.20.10.00	Nos	1	USD		25-30T/H	9,461.08	9,461.08
32	BUCKET ELEVATOR	8428.39.10.00	Nos	1	USD		30T/H	7,763.17	7,763.17
33	BROWN RICE TANK	7309.00.99.00	Nos	9	USD		30t x 3	5,000.00	45,000.00
34	VIBERATE SIEVE +VERTICAL SUCTION CHANNEL	8414.51.91.00	Set	1	USD		12-15T/H	8206	8,206.00
35	ROTARY SIFTER	8437.10.10.00	Set	12	USD			23000	276,000.00
36	CHAIN CONVEYER	8428.20.10.00	Nos	13	USD		25-30T/H	9,461.08	122,994.04
37	CHAIN CONVEYER	8428.20.10.00	Nos	1	USD		25-30T/H	9,461.08	9,461.08

38	CHAIN CONVEYER	8428.20.10.00	Nos	1	USD		25-30T/H	9,461.08	9,461.08
39	BUCKET ELEVATOR	8428.39.10.00	Nos	1	USD		30T/H	4,493.90	4,493.90
40	FLOW METER	9026.10.30.00	Nos	1	USD		25-40T/H	4,809.31	4,809.31
41	AIR LOCK	8414	Nos	1	USD		16-24L	2,534.91	2,534.91
42	SCREW COMPRESSOR FAN	8414.59.99.00	Nos	1	USD			2,804.21	2,804.21
43	BUCKET ELEVATOR	8428.39.10.00	Nos	4	USD		30T/H	13,365.34	53,461.34
44	FLOW METER	9026.10.30.00	Nos	1	USD		25-40T/H	8,653.60	8,653.60
45	CHAIN CONVEYER	8428.20.10.00	Nos	4	USD		25-30T/H	9,461.08	37,844.32
46	BAG FILTER	8421.99.98.00	Nos	24	USD			8,743.12	209,834.88
47	AIR LOCK	8414	Nos	24	USD		16-24L	1,129.44	27,106.66
48	DUST SUCTION FAN	8414.51.91.00	Nos	24	USD			6,238.00	149,712.00
49	SILENCER	8414.90.92.00	Nos	24	USD			746.00	17,904.00
50	BAG FILTER	8421.99.98.00	Nos	1	USD			14,397.80	14,397.80
51	AIR LOCK	8414	Nos	1	USD		16-24L	1,399.50	1,399.50
52	DUST SUCTION FAN	8414.51.91.00	Nos	1	USD			2,238.00	2,238.00
53	SILENCER	8414.90.92.00	Nos	1	USD			746.00	746.00
54	BAG FILTER	8421.99.98.00	Nos	1	USD			14,397.80	14,397.80
55	AIR LOCK	8414	Nos	1	USD		16-24L	1,399.50	1,399.50
56	DUST SUCTION FAN	8414.51.91.00	Nos	1	USD			6,238.00	6,238.00
57	SILENCER	8414.90.92.00	Nos	1	USD			746.00	746.00

58	BAG FILTER	8421.99.98.00	Nos	1	USD			14,397.80	14,397.80
59	AIR LOCK	8414	Nos	1	USD		16-24L	1,399.50	1,399.50
60	DUST SUCTION FAN	8414.51.91.00	Nos	1	USD			6,238.00	6,238.00
61	SILENCER	8414.90.92.00	Nos	1	USD			746.00	746.00
62	pipe fittings etc	7306.40.20.00 / 7307.99.90.00	LOT	1	USD			500,000.00	500,000.00
1.1.2	**Whiteness Sorting Section**								**4,046,137.82**
1	BUCKET ELEVATOR	8428.39.10.00	Nos	9	USD		20-30T/H	10,078.46	90,706.14
2	FLOW METER	9026.10.30.00	Nos	9	USD		20-30T/H	8,653.60	77,882.40
3	MAGNET	8437.10.10.00	Nos	33	USD			775.84	25,602.72
4	Emery roll rice milling machine	8437	Nos	20	USD		10-15T/H	42,000.00	840,000.00
5	BUCKET ELEVATOR	8428.39.10.00	Nos	10	USD		20-30T/H	7,624.12	76,241.20
6	VIBRATE SIEVE+VERTICAL CHANNEL	8437.80.51.00	Set	18	USD		20-30T/H	9,101.20	163,821.60
7	BUCKET ELEVATOR	8428.39.10.00	Nos	1	USD		20-30T/H	9,604.30	9,604.30
8	ROTARY SIFTER	8437.80.51.00	Nos	36	USD		4-8T/H	12,668.08	456,050.79
9	CHAIN CONVEYER	8428.20.10.00	Nos	4	USD			9,461.08	37,844.32
10	POLISHING MACHINE	8437.80.51.00	Nos	6	USD		5-12T/H	18,900.00	113,400.00
11	BUCKET ELEVATOR	8428.39.10.00	Nos	1	USD		20-30T/H	9,604.30	9,604.30
12	COLOR SORTER	8437.10.10.00	Nos	6	USD			95,000.00	570,000.00
	COLOR SORTER	8437.10.10.00	Nos	4	USD			152,000.00	608,000.00
13	BUCKET ELEVATOR	8428.39.10.00	Nos	3	USD		20-30T/H	4,542.54	13,627.63
14	LENGTH GRADER	8437.10.10.00	Nos	15	USD		5-10T/H	14,920.00	223,800.00
15	CHAIN CONVEYER	8428.20.10.00	Nos	1	USD		20-30T/H	9,461.08	9,461.08
16	Pneumatic tee	8467.19.00.00	Nos	64	USD			1,000.00	64,000.00
17	SILENCER	8414.90.92.00	Nos	18	USD			746.00	13,428.00

18	AUTOMATIC VALVE	8481	Nos	61	USD			460.00	28,060.00
19	AIR LOCK	8414	Nos	19	USD		16-24L	1,399.50	26,590.42
20	DUST SUCTION FAN	8414.51.91.00	Nos	18	USD			6,238.00	112,284.00
21	BAG FILTER	8421.99.98.00	Nos	18	USD			13,651.80	245,732.40
22	FLOW METER	9026.10.30.00	Nos	3	USD		20-30T/H	10,132.17	30,396.52
23	pipe fittings etc	7306.40.20.00 / 7307.99.90.00	some	1	USD		12tons	200,000.00	200,000.00
1.1.3	**Product Workshop**								**6,823,517.97**
1	BUCKET ELEVATOR	8428.39.10.00	Nos	16	USD		40-70T/H	12,140.03	194,240.44
2	FLOW METER	9026.10.30.00	Nos	4	USD		15-40T/H	11,279.52	45,118.08
3	MAGNET	8437.10.10.00	Nos	60	USD			626.64	37,598.40
4	DISTRIBUTOR	8423.30.10.00	Nos	3	USD			4,476.00	13,428.00
5	POLISHING MACHINE	8437.80.51.00	Nos	10	USD		5-12T/H	18,900.00	189,000.00
6	ROTARY SIFTER	8437.80.51.00	Nos	8	USD		5-12T/H	17,668.08	141,344.62
7	VERTICAL SUCTION CHANNEL	8414.51.91.00	Set	7	USD		5-12T/H	8,206.00	57,442.00
8	MAGNET	8437.10.10.00	Nos	14	USD			626.64	8,772.96
9	COOLING PADDY	8437.80.59.00	Nos	48	USD		500T	98,744.00	4,739,712.00
10	DUST SUCTION FAN	8414.51.91.00	Nos	12	USD			6,238.00	74,856.00
11	RICE TEMPRATURE CONTROL	8437	Nos	1	USD		4*1400T	426,440.26	426,440.26
12	CHAIN CONVEYER	8428.20.10.00	Nos	21	USD		20-30T/H	9,461.08	198,682.68
13	AUTOMATIC VALVE	8481	Nos	158	USD			450.00	71,100.00

14	RICE MIXER	8423.30.10.00	Nos	16	USD			9,500.32	152,005.12
15	CHAIN CONVEYER	8428.20.10.00	Nos	15	USD		40-70T/H	9,461.08	141,916.20
16	AUTOMATIC VALVE	8481	Nos	16	USD			850.44	13,607.04
17	ASPIRATE SEPARATOR	8437.10.10.00	Nos	1	USD		1500	7,460.00	7,460.00
18	AIR LOCK	8414	Nos	8	USD		16-24L	1,399.50	11,195.97
19	DUST SUCTION FAN	8414.51.91.00	Nos	5	USD			6,238.00	31,190.00
20	SILENCER	8414.90.92.00	Nos	5	USD			746.00	3,730.00
21	BAG FILTER	8421.99.98.00	Nos	5	USD			12,935.64	64,678.20
22	pipe fittings etc	7306.40.20.00 / 7307.99.90.00	lot	1	USD			200,000.00	200,000.00
1.1.4	**The by-product Process Equipment**								**3,627,621.85**
1	SEALING MACHINE	8422.30.00.00	Nos	4	USD			8,669.60	34678.4
2	Code Printer	8443.39.40.00	Nos	4	USD			10,266.40	41,065.60
3	IMMATURATE RICE TANK	7309.00.99.00	lot	1	USD		200Tons	51,780.56	51,780.56
4	SMALL BROKEN RICE TANK	7309.00.99.00	lot	1	USD		200Tons	51,780.56	51,780.56
5	COLOURED RICE TANK	7309.00.99.00	lot	1	USD		200Tons	51,780.56	51,780.56
6	CHALKY TANK	7309.00.99.00	lot	1	USD		200Tons	51,780.56	51,780.56
7	The whole rice tank	7309.00.99.00	lot	1	USD		1000T*4	150,000.00	150,000.00
8	Middle Broken rice tank	7309.00.99.00	lot	1	USD		1000T*4	150,000.00	150,000.00
9	Big broken tank	7309.00.99.00	lot	1	USD		1000T*4	150,000.00	150,000.00

10	SMALL BROKEN RICE TANK After the color sorter	7309.00.99.00	Nos	2	USD		200Tons	51,780.56	103,561.13
11	Large packing scale (50kg special, with sewing machine)	8423.30.10.00	Nos	4	USD			22,831.20	91,324.80
12	AUTOMATIC VALVE	8481	Nos	8	USD			460.00	3,680.00
13	FLOW METER	9026.10.30.00	Nos	18	USD			4,809.31	86,567.63
14	SCREW COMPRESSOR FAN	8414.59.99.00	Nos	6	USD			2,804.21	16,825.28
15	CHAIN CONVEYER	8428.20.10.00	Nos	12	USD			9,461.08	113,532.96
16	BUCKET ELEVATOR	8428.39.10.00	Nos	4	USD			27,717.27	110,869.09
17	AIR LOCK	8414	Nos	18	USD			1,399.50	25,190.93
18	crooked +straight CHAIN CONVEYER	8428	Nos	10	USD			25,593.47	255,934.70
19	BUCKET ELEVATOR	8428.39.10.00	Nos	2	USD			65,593.47	131,186.94
20	HUSK SILO	7309.00.91.00	Nos	16	USD		200Tons	77,125.60	1,234,009.60
21	AUTOMATIC VALVE	8481	Nos	10	USD			850.44	8,504.40
22	crooked +straight CHAIN CONVEYER	8428	Nos	10	USD			25,593.47	255,934.70
23	BUCKET ELEVATOR	8428.39.10.00	Nos	2	USD			65,593.47	131,186.94
24	Belt conveyor	8428.33.10.00	Nos	2	USD		600mm	10,000.00	20,000.00
25	DUST SUCTION FAN	8414.51.91.00	Nos	5	USD			6,238.00	31,190.00
26	BAG FILTER	8421.99.98.00	Nos	5	USD			13,651.80	68,259.00
27	AIR LOCK	8414	Nos	5	USD		16-24L	1,399.50	6,997.48
28	pipe fittings etc	7306.40.20.00 / 7307.99.90.00	LOT	1	USD		6tons	200,000.00	200,000.00

1.1.5	**Finished packaging and stacking system**								**3,725,073.60**
1	Fully automatic packing unit	8423.30.10.00	Nos	3	USD			136,710.40	410,131.20
2	Large packing scale (50kg special, with sewing machine)	8423.30.10.00	Nos	4	USD	540 BAG/H		122,831.20	491,324.80
3	Automatic packing A line transportation integrated system	8428	set	1	USD			450,000.00	450,000.00
4	Automatic packing B line transportation integrated system	8428	set	1	USD			450,000.00	450,000.00
5	Automatic packing C line transportation integrated system	8428	set	1	USD			450,000.00	450,000.00
7	To pack cartons for A line stacking equipment	8428	set	1	USD			300,000.00	300,000.00
8	To pack cartons for B line stacking equipment	8428	set	1	USD			300,000.00	300,000.00
9	To pack cartons for C line stacking equipment	8428	set	1	USD			300,000.00	300,000.00
11	Case unpacker system	8428	set	1	USD			100,000.00	100,000.00
12	Box sealing system	8422	set	1	USD			100,000.00	100,000.00
13	Code Printer	8443.39.40.00	Nos	11	USD			10,266.40	112,930.40
14	SEALING MACHINE	8422.30.00.00	Nos	7	USD			8,669.60	60,687.20
15	pipe fittings etc	7306.40.20.00 / 7307.99.90.00	some	1	USD			200,000.00	200,000.00
1.1.6	**Related Process Equipment**								**3,473,387.41**
1	CHAIN CONVEYER	8428.20.10.00	Nos	8	USD		25-40T/H	9,461.08	75,688.64
2	BUCKET ELEVATOR	8428.39.10.00	Nos	12	USD		15-30T/H	27,717.27	332,607.26
3	AUTOMATIC VALVE	8481	Nos	70	USD			460.00	32,200.00
4	CHAIN CONVEYER	8428.20.10.00	Nos	26	USD		25-40T/H	9,461.08	245,988.08
5	MAGNET	8437.10.10.00	Nos	36	USD			671.40	24,170.40

6	RICE MIXER	8423.30.10.00	Nos	3	USD			7,400.32	22,200.96
7	Portable electric sewing machine	8422.30.00.00	Nos	10	USD			669.60	6696.00
8	BIG BROKEN RICE TANK	7309.00.99.00	Nos	4	USD			41,780.56	167,122.26
9	Surge bin	7309.00.91.00	lot	1	USD			300,000.00	300,000.00
10	Front filter	8421	Nos	9	USD			1,600.00	14,400.00
11	post-filter	8421.99.98.00	Nos	9	USD			1,600.00	14,400.00
12	DRYER OF COMPRESS AIR	8419.39.19.00	Nos	9	USD			8,023.08	72,207.73
13	AIR COMPRESSOR	8414.80.49.00	Nos	7	USD			71,940.68	503,584.75
14	Variable frequency AIR COMPRESSOR	8414.80.49.01	Nos	2	USD			87,940.68	175,881.36
15	AIR DRYER	8419.39.19.00	Nos	9	USD			31,250.39	281,253.49
16	AIR TANK	7309.00.99.00	Nos	9	USD		1.0bar	2,796.39	25,167.55
17	AIR TANK	7309.00.99.00	Nos	2	USD		1.08bar	3,796.39	7,592.79
18	Pressure sensor	9026.20.30.00	Nos	2	USD			1,200.00	2,400.00
19	sub cylinder	7309.00.99.00	Nos	1	USD			1,000.00	1,000.00
20	DISCHARGE VALVE	8481	Nos	32	USD			531.15	16,996.86
21	STAINLESS WATER TANK	7309.00.99.00	Nos	1	USD		8- 12 cubic	7,923.60	7,923.60
22	STAINLESS PUMP	8413.70.11.00	Nos	2	USD			984.72	1,969.44
23	REVERSE OSMOSIS	8421.21.22.00	Nos	3	USD			5,222.00	15,666.00
24	LIQUID CARBON DEOXIDE TANK	7309.00.99.00	Nos	1	USD		$15m^3$	25,811.60	25,811.60
25	CARBON DEOXIDE EVAPORATOR	8419	Nos	2	USD			2,685.60	5,371.20

26	REDUCING VALVE	8481	Nos	1	USD			2,685.60	2,685.60
27	CARBON DEOXIDE ANCILLARY	8419	Lot	1	USD			11,870.35	11,870.35
28	PACKING ELEVATOR	8428.39.10.00	Nos	1	USD			22,380.00	22,380.00
29	ELEVATOR LIFT	8428.39.10.00	Nos	1	USD			8,952.00	8,952.00
30	UPS power supply	8504.40.11.00	Nos	22	USD		3KVA	600.00	13,200.00
31	GP328 MOTOROLA intercom	8517.62.91.00	Nos	30	USD		GP328	1,000.00	30,000.00
32	Linde electric fork-lift	8427.10.00.00	Nos	2	USD		pedal	20,000.00	40,000.00
33	ROBOT CONTROL INSTRUMENT	8479.50.00.00	Nos	5	USD			7,460.00	37,300.00
34	ROTARY SIFTER	8437.80.51.00	Nos	6	USD		12.5T/H/PC	17,668.08	106,008.47
35	VERTICAL SUCTION CHANNEL	8414.51.91.00	Nos	6	USD		12.5T/H/PC	8,206.00	49,236.00
36	ROTARY SIFTER	8437.80.51.00	Nos	6	USD		12.5T/H/PC	8,206.00	49,236.00
37	BUCKET ELEVATOR	8428.39.10.00	Nos	2	USD			7,559.52	15,119.03
38	AUTOMATIC VALVE	8481	Nos	30	USD			460.00	13,800.00
39	Cleaning machine	8437.80.51.00	Nos	5	USD			6,000.00	30,000.00
40	elevator	8428.10.39.00	Nos	2	USD			120,000.00	240,000.00
41	Drag-bit gauge	9026.80.10.00	lot	1	USD			100,000.00	100,000.00
42	radar level gauge	9026.10.30.00	lot	1	USD			180,000.00	180,000.00
43	Two-way valve	8481	lot	1	USD			13,000.00	13,000.00
44	Heat recovery system	8414.51.91.00	lot	1	USD			132,300.00	132,300.00

1.1.7 finished products、By-products and grain warehouse									**2,231,300.00**
1	electric fork-lift	8427.10.00.00	Nos	6	USD			23,000.00	138,000.00
2	Hydraulic bin loader	8428.39.10.00	Nos	1	USD			23,000.00	23,000.00
3	Automobile bulk food receiver	8428.39.10.00	Nos	5	USD			23,000.00	115,000.00
4	Linde diesel forklift truck	8427.20.00.00	Nos	3	USD			23,000.00	69,000.00
5	hydraulic lift tables	8427.10.00.00	Nos	2	USD			40,000.00	80,000.00
6	Automatic lifting and rolling shutter door	7308.40.10.00	Nos	10	USD			4,000.00	40,000.00
7	Linde high-order electric fork-lift	8427.10.00.00	Nos	8	USD			4,000.00	32,000.00
8	Movable horizontal conveyor	8427.10.00.00	Nos	2	USD			60,000.00	120,000.00
9	Movable horizontal inverted expansion conveyor	8427.10.00.00	Nos	5	USD			18,000.00	90,000.00
10	Storage cooler	8428.39.10.00	Nos	15	USD			30,000.00	450,000.00
11	Phosphor gas detector	9027.10.10.00	Nos	5	USD			15,000.00	75,000.00
12	Deep sampler	8438.80.91.00	Nos	2	USD			1,650.00	3,300.00
13	Push-pull device	8427.10.00.00	lot	1	USD			80,000.00	80,000.00
14	net	8427.10.00.00	Nos	8	USD			22,000.00	176,000.00
15	loader	8427.10.00.00	lot	1	USD			40,000.00	40,000.00
16	Plastic tray	8427.10.00.00	Nos	4000	USD			60.00	240,000.00
17	Container tilter	8427.10.00.00	Nos	1	USD			80,000.00	80,000.00
18	ventilating system	8414.51.91.00	Nos	3	USD			60,000.00	180,000.00
19	Spare Parts	8427.10.00.00	Nos	1	USD			200,000.00	200,000.00
1.1.8 Lab Equipment									**305,067.89**
1	vacuum packing	8422.30.00.00	Nos	1	USD		DZD-400/S	566.96	566.96
2	Iron roller rice mill	8437.80.59.00	Nos	1	USD		LTJM 160	880.00	880.00
3	smash machine	8437.80.59.00	Nos	1	USD		JFSO-100	208.88	208.88

4	electronic scales	8423.81.10.00	Nos	1	USD		BS223S	1,327.88	1,327.88
5	drying oven	8419.31.40.00	Nos	2	USD		101-0A型	216.34	432.68
6	plastic heat-sealing	8422.30.00.00	Nos	1	USD		SF-300	14.92	14.92
7	moisture measurement	8438.80.91.00	Nos	5	USD		LSKC-4B型	7.46	37.30
8	multiple sampler	8438	Nos	1	USD		LDQ-1400W	223.80	223.80
9	whitener	8437.80.51.00	Nos	1	USD		LTJM-2008	34.10	34.10
10	lab husk separater	8437.10.10.00	Nos	2	USD		JLGJ-4.5	53.71	107.42
11	lab frication whitener	8437.80.51.00	Nos	1	USD		JNMJ-3	96.98	96.98
12	smash machine	8438.80.91.00	Nos	2	USD		JFSDI-100	74.60	149.20
13	electic cooker	8516.60.10.00	Nos	5	USD		4L	59.68	298.40
14	electronic scales	8423.81.10.00	Nos	1	USD		BS2202S	805.68	805.68
15	refrigerator	8418.40.90.00	Nos	1	USD		BCD-196TWL	298.10	298.10
16	clock	9105.21.00.00	Nos	3	USD		XK98-A	30.59	91.76
17	whiteness meter	8438.80.91.00	Nos	1	USD		MM1D	7,609.20	7,609.20
18	stiring	8438.80.91.00	Nos	1	USD		78--1	71.62	71.62
19	spectrograph	9027.30.10.00	Nos	1	USD		PinAAcle 900T	71,317.60	71,317.60
20	fluorescence quantitative PCR instrument	8438	Nos	1	USD		PCR7500	68,632.00	68,632.00
21	halogen moisture	8438	Nos	3	USD		HE83	4,080.62	12,241.86
22	bulk density tester	8438	Nos	1	USD			300.00	300.00
23	frication grinder	8437	Nos	1	USD		LM3310	4,335.60	4,335.60

24	tension tester	8438.80.91.00	Nos	2	USD		YG026C	1,849.04	3,698.07
25	unit moisture	8438.80.91.00	Nos	1	USD		CTR-500ES-TF-T	5,406.86	5,406.86
26	husk separater	8437.10.10.00	Nos	2	USD		JLG-II	341.76	683.52
27	whitener	8437.80.51.00	Nos	1	USD		JNM-II	341.76	341.76
28	plain sifter	8437.80.51.00	Nos	6	USD		SXSXN-3	223.80	1,342.80
29	carton pressure strength tester	8438	Nos	1	USD		AG-0188	2,295.14	2,295.14
30	sampler system	8438.80.91.00	Set	1	USD			84,440.00	84,440.00
31	viscometer	8438.80.91.00	Nos	1	USD		RVA	36,777.80	36,777.80
1.1.9	**Parboiled rice plant**								**3,976,553.54**
1	FLOW METER	9026.10.30.00	Nos	2	USD		60T/H	64,621.60	129,243.20
2	Drying tower	8474.10.10.00	nos	5	USD		25T/H	180,000.00	900,000.00
3	Stainless steel Heat exchanger	8419.50.92.00	Nos	1	USD		1300*2800*1300	59,400.00	59,400.00
4	Circulating air separator	8474	Nos	3	USD		20T/H	15,000.00	45,000.00
5	DUST SUCTION FAN	8414.51.91.00	Nos	4	USD			6,238.00	24,952.00
6	BAG FILTER	8421.99.98.00	Nos	4	USD			13,651.80	54,607.20
7	AIR LOCK	8414	Nos	4	USD		16-24L	1,399.50	5,597.98
8	Soaking pot	8437.80.59.00	Nos	16	USD		25T/H	80,000.00	1,280,000.00
9	CHAIN CONVEYER	8428.20.10.00	Nos	40	USD		300T/H	14,653.24	586,129.60
10	BUCKET ELEVATOR	8428.39.10.00	Nos	3	USD			17,207.85	51,623.56
11	Cooking pot	8437.80.59.00	Nos	6	USD			120,000.00	720,000.00

12	Pipe spare parts, etc	7306.40.20.00 / 7307.99.90.00	lot	1	USD			120,000.00	120,000.00
TOTAL RICE MILL M&E AND LAB EQUIPMENT					**USD**				**32,196,677.11**

1.2 BREAKDOWN (RICE BRAN OIL MACHINERY ELECTRICAL & LAB EQUIPMENTS)

S/N	ITEM	HS Code	COUNTRY OF ORIGIN	Unit	QUANTITY	CURRENCY	SPECIFICATION	MODEL	UNIT PRICE (USD)	TOTAL (USD)
1.2.1	Preparation Workshop									1,456,935.69
1	heavy-duty steel grille	8479	China/Thailand/Foreign	Nos	2	USD	2m*3m		1,311.50	2,623.00
2	scraper conveyor	8428.39.10.00		Nos	1	USD	TMSS32		11,270.77	11,270.77
3	pulse filter	8421.39.90.00		Nos	1	USD	TBLMY76		9,815.38	9,815.38
4	fan	8414.51.91.00		Nos	1		DHF-Z-710C		1,607.69	1,607.69
5	silencer	8414.90.92.00		Nos	1				338.46	338.46
6	lift scraper conveyor	8428.39.10.00		Nos	1		TMCF42		18,327.69	18,327.69
7	pulse filter	8421.39.90.00		Nos	1		TBLMY26		7,615.38	7,615.38
8	fan	8414.51.91.00		Nos	1		DHF-Z-450C		1,353.85	1,353.85
9	silencer	8414.90.92.00		Nos	1				338.46	338.46
10	weight scale	8423.30.10.00		Nos	1		NCS-50		17,769.23	17,769.23
11	pneumatic gate	8481.80.82.00		Nos	1	USD	300*300		592.31	592.31
12	manual gate	8481.80.61.00		Nos	1	USD	300*300		423.08	423.08
13	scraper conveyor	8428.39.10.00	China/Thailand/Foreign	Nos	1	USD	TMSS32		12,201.54	12,201.54
14	bucket elevator	8428.39.10.00		Nos	1	USD	TDTG50/23		10,746.15	10,746.15
15	roller demagnetizer	8479.20.10.00		Nos	1	USD	DFRT310/640		9,307.69	9,307.69
16	vibrating screen	8479.20.10.00		Set	1	USD	TQLM160		24,538.46	24,538.46
17	softening pot	8479.20.10.00		Lot	1	USD	ϕ3000*5		82,076.92	82,076.92
18	lift the scraper conveyor	8428.39.10.00		Nos	1	USD	TMCF32		26,230.77	26,230.77
19	screw conveyor	8428.39.10.00		Nos	1	USD	TLSY40		3,604.62	3,604.62
20	puffing machine	8479		Nos	1	USD	YJR350		126,923.08	126,923.08

21	flip plate cooler	8479.20.10.00	China/Thailand/Foreign	Nos	1	USD	TLNF42*42		61,769.23	61,769.23
22	cyclone	8421.39.90.00		Nos	1	USD	Φ1800双联		5,076.92	5,076.92
23	revolving closed valve	8481.80.88.00		Nos	1	USD	GFDWZY24		1,100.00	1,100.00
24	fan	8414.51.91.00		Nos	1	USD	DHF-Z-1250C		4,484.62	4,484.62
25	silencer	8414.90.92.00	China/Thailand/Foreign	Nos	1	USD			338.46	338.46
26	air heater	8419	China/Thailand/Foreign	Nos	1	USD	SRZ10X10D		4,484.62	4,484.62
27	lift the scraper conveyor	8428.39.10.00		Nos	1	USD	TMCF32		33,084.62	33,084.62
28	scraper conveyor	8428.39.10.00		Nos	1	USD	TMSS25		15,691.92	15,691.92
29	weight scale	8423.30.10.00		Nos	1	USD	NCS-50		17,769.23	17,769.23
30	pneumatic gate valve	8481.80.82.00	China/Thailand/Foreign	Nos	1	USD	300*300		592.31	592.31
31	hand gate	8481.80.61.00		Nos	1	USD	300*300		423.08	423.08
32	scraper conveyor	8428.39.10.00		Nos	1	USD	TMSS25		16,390.00	16,390.00
33	lift the scraper conveyor	8428.39.10.00		Nos	1	USD	TMCF32		0.00	0.00
34	safe fan	8414.51.91.00		Nos	1	USD	B-9-16-5.6A		0.00	0.00
35	pneumatic gate valve	8481.80.82.00	China/Thailand/Foreign	Nos	1	USD	300*300		592.31	592.31
36	scraper conveyor	8428.39.10.00		Set	1	USD	TMSS25		19,647.69	19,647.69
37	bucket elevator	8428.39.10.00	China/Thailand/Foreign	Nos	1	USD	TDTG50/28		13,030.77	13,030.77
38	scraper conveyor	8428.39.10.00		Nos	1	USD	TMSS25		16,157.31	16,157.31
39	pneumatic gate valve	8481.80.82.00		Nos	1	USD	500*250		592.31	592.31
40	Expansion temporary storage	8479	China/Thailand/Foreign	Nos	2	USD			0.00	0.00
41	pneumatic gate valve	8481.80.82.00			1		500*500		846.15	846.15
42	pneumatic gate valve	8481.80.82.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	500*500		846.15	846.15

43	scraper conveyor	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	TMSS25		16,622.69	16,622.69
44	bucket elevator	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	TDTG50/28		9,476.92	9,476.92
45	scraper conveyor	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	TMSS25		14,993.85	14,993.85
46	Heavy duty steel grating	8479	China/Thailand/Japan/Switzerland/others	Nos	1	USD	2m*3m		2,623.08	2,623.08
47	lift the scraper conveyor	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	TMCF25		26,450.77	26,450.77
48	pulse dust collector	8421.39.90.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	TBLMY36		8,376.92	8,376.92
49	fan	8414.51.91.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	DHF-Z-560C		1,607.69	1,607.69
50	silencer	8414.90.92.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD			338.46	338.46
51	condensation water tank	7309.00.99.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	ϕ1000×1200		2,030.77	2,030.77
52	condensation pump	8413	China/Thailand/Japan/Switzerland/others	Nos	1	USD			1,607.69	1,607.69
53	steam header	8402	China/Thailand/Japan/Switzerland/others	Nos	1	USD	ϕ150×1200		3,384.62	3,384.62
54	steam header	8402	China/Thailand/Japan/Switzerland/others	Nos	1	USD	ϕ150×1200		1,692.31	1,692.31
55	air tank	7309.00.99.00	China/Thailand/Japan/Switzerland/others	Set	1	USD	$2m^3$		2,284.62	2,284.62
56	waste heat trap	8479.20.10.00	China/Thailand/Japan/Switzerland/others	Set	1	USD	BJQ1600		31,307.69	31,307.69
57	water pump	8413.70.19.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	Q：25m3/h；		5,076.92	5,076.92
58	filter	8421.99.98.00	China/Thailand/Japan/Switzerland/others	Set	1	USD	$0.5m^2$		3,130.77	3,130.77
59	cyclone	8421.39.90.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	SKL1600		8,461.54	8,461.54
60	close valve	8481.80.88.00	China/Thailand/Japan/Switzerland/others	Set	1	USD	GFW12		846.15	846.15
61	Motor, control cabinet and capacitance cabinet	8538.10.19.00	China/Thailand/Foreign	Nos	1	USD				
62	PLC	8537.10.12.00	China/Thailand/Foreign	Nos	1	USD			408,000	408,000
63	Computer control system	8537.10.12.00	China/Thailand/Foreign	Nos	1	USD				
64	cable & bridge	7308 / 8544	China/Thailand/Foreign	Nos	1	USD			42000	42,000

65	Sensor and control instrument	9026.10.10.00 / 9026.20.30.00 / 9026.80.10.00 / 9026.90.10.00 / 9032.89.39.00	China/Thailand/Foreign	Nos	1	USD			16000	16,000
66	Valve, flange	8481 / 7307	China/Thailand/Foreign	Nos	1	USD			35000	35,000
67	pneumatic piping	7306	China/Thailand/Foreign	Nos	1	USD			6000	6,000
68	process line	7306	China/Thailand/Foreign	Nos	1	USD			84000	84,000
69	air network, air duct, etc	8414	China/Thailand/Foreign	Nos	1	USD			20000	20,000
70	Standard parts, sealing materials, welding rod and other auxiliary materials	7307 / 4016 / 8311	China/Thailand/Foreign	Nos	1	USD			15000	15,000
71	paint	3208.10.90.00	China/Thailand/Foreign	Nos	1	USD			10000	10,000
72	insulation material	6806.10.00.00	China/Thailand/Foreign	Nos	1	USD			20000	20,000
73	rice bran meal steel silos	7309.00.91.00	China/Thailand/Japan/Switzerland/others	Ton	80	USD			1000	80000
1.2.2	**Extraction Workshop**									**2,562,872.31**
1	safe fan	8414.51.91.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	FN301	B-9-16-4A	1,503.85	1,503.85
2	lift scraper conveyor	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	RE300	TMCF32	31,050.00	31,050.00
3	flashboard	8479	China/Thailand/Japan/Switzerland/others	Nos	1	USD	SV301	TZMQ-400A	3,803.85	3,803.85
4	sealing auger	8479	China/Thailand/Japan/Switzerland/others	Nos	1	USD	SC301	SKLL40	12,119.23	12,119.23
5	E shape extractor	8479	China/Thailand/Japan/Switzerland/others	Nos	1	USD	EX301	YJME300X110	433,461.54	433,461.54
6	extractor condenser	8479.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	CO301	Φ325x4.2	11,942.31	11,942.31
7	mixed oil circulating pump	8413.70.19.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	PU301-303	Q=100 m3/h ; H=12 m	5,573.08	5,573.08

8	mixed oil circulating pump	8413.70.19.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	PU304A-B	Q=100 m3/h;	5,573.08	5,573.08
9	mixed oil circulating pump	8413.70.19.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	PU305-307	Q=100 m3/h	5,573.08	5,573.08
10	cyclone separator	8421.39.90.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	CY301	6''x2	6,192.31	6,192.31
11	mixed oil filter	8479.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	FI301	N73	6,457.69	6,457.69
12	mixed oil tank	7309.00.99.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	TK315A-B	Φ2800 x7500	11,500.00	11,500.00
13	slag recovery pump	8413	China/Thailand/Japan/Switzerland/others	Nos	1	USD	PU315C	Q=8m3 /h；	3,273.08	3,273.08
14	evaporative feed pump	8413	China/Thailand/Japan/Switzerland/others	Set	1	USD	PU315A-B	Q=30m 3/h；	5,573.08	5,573.08
15	thick mixed oil pump	8413.70.19.00	China/Thailand/Japan/Switzerland/others	Set	1	USD	PU312A-B	Q=45m 3/h；H =50m	6,192.31	6,192.31
16	fresh solvent pump	8413	China/Thailand/Japan/Switzerland/others	Nos	1	USD	PU300A-B	Q：45 m3/h ；H：30m	5,573.08	5,573.08
17	solvent dregs pump	8413	China/Thailand/Japan/Switzerland/others	Set	1	USD	PU300C	Q：5m ³/h；	5,573.08	5,573.08
18	wet meal scraper	8479	China/Thailand/Japan/Switzerland/others	Nos	1	USD	RE304	MCTG40	44,230.77	44,230.77
19	DTDC	8479	China/Thailand/Japan/Switzerland/others	Set	1	USD	DT305	DTDC380x9	336,153.85	336,153.85
20	feeder	8479.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	DT305A-B		5,573.08	5,573.08
21	scraper	8479.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	SC311	TGSS25	9,730.77	9,730.77
22	DTDC cyclone	8421	China/Thailand/Japan/Switzerland/others	Nos	1	USD	CY305	D1600x 2.8	9,730.77	9,730.77
23	waster water boiler	8479.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	TK350	Φ1400 x1.5	7,430.77	7,430.77
24	heat exchanger	8419.50.92.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	HX345	Φ4000 x3.5	7,430.77	7,430.77

25	DTDC washing pump	8413	China/Thailand/Japan/Switzerland/others	Nos	1	USD	PU347A	Q：25 m3；H：30m	5,042.31	5,042.31
26	waste water extraction pump	8413	China/Thailand/Japan/Switzerland/others	Nos	1	USD	PU347D	Q：6m³/h；H：30m	5,573.08	5,573.08
27	one evaporate	8419.89.20.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	EV320	Φ800xΦ1600x9.0	68,115.38	68,115.38
28	separator	8479.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	EV320A		2,653.85	2,653.85
29	Heat Exchanger	8419.50.92.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	VC320	Φ800x3.0	12,384.62	12,384.62
30	one evaporate extraction pump	8413.70.19.00	China/Thailand/Japan/Switzerland/others	Nos	2	USD	PU320A	Q：15 m³/h；H：25 m	5,573.08	11,146.15
31	mixed oil exchanger	8479.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	HX333	Φ273x4.2	5,307.69	5,307.69
32	evaporator condenser	8479.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	2	USD	CO320	Φ6S0x8.2	71,653.85	143,307.69
33	evaporative jet pump	8413	China/Thailand/Japan/Switzerland/others	Nos		USD	EJ327A		3,715.38	0.00
34	pump	8413.70.19.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	PU341B	Q：24 m³/h；H：26 m	5,573.08	5,573.08
35	two evaporate	8419	China/Thailand/Japan/Switzerland/others	Nos	2	USD	EV325A	Φ350xΦ1200x8.5	10,615.38	21,230.77
36	separator	8479.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	PU326A		2,653.85	2,653.85
37	pump	8413.70.19.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	PU326B		3,273.08	3,273.08
38	condenser	8479.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	CO305	Φ650x6.5	30,076.92	30,076.92
39	air-liftingtower	8479.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	OS330	Φ900x14	23,884.62	23,884.62

40	air-lifting pump	8413	China/Thailand/Japan/Switzerland/others	Nos	1	USD	PU331A-B	Q：6m3/h；	3,450.00	3,450.00
41	condenser	8479.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	CO331	Φ325x4.2	7,076.92	7,076.92
42	condenser	8479.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	CO330A	Φ500x5	9,730.77	9,730.77
43	condenser	8479.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	CO330	Φ500x8.2	17,692.31	17,692.31
44	enjector	8479	China/Thailand/Japan/Switzerland/others	Nos	1	USD	EJ332A		3,450.00	3,450.00
45	water tank	7309.00.99.00	China/Thailand/Japan/Switzerland/others	Nos	2	USD	TK340	D2800X6.0	20,346.15	40,692.31
46	pump	8413.70.19.00	China/Thailand/Japan/Switzerland/others	Nos	2	USD	PU347A-B	Q：6m3/h；	2,919.23	5,838.46
47	mineral oil tower	8479.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	MO362	Φ500x12	11,500.00	11,500.00
48	seperator	8479.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	2	USD		Φ400x0.8	353.85	707.69
49	pump	8413.70.19.00	China/Thailand/Japan/Switzerland/others	Nos	2	USD	PU362	Q：8m3/h；	3,450.00	6,900.00
50	stripper tower	8479.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	2	USD	MO361	Φ500x12	11,500.00	23,000.00
51	pump	8413.70.19.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	PU361	Q：8m3/h；	3,450.00	3,450.00
52	heater	8419.31.40.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	HX361	Φ325x3.0	2,547.69	2,547.69
53	heater exchanger	8419.50.92.00	China/Thailand/Japan/Switzerland/others	Nos	2	USD	HX362A	5m2	2,653.85	5,307.69
54	cooler	8419.50.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	HX362B	10m2	4,776.92	4,776.92
55	tail gas fan	8414.51.91.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	FN361	Q=500m3/h；	1,946.15	1,946.15
56	tail gas condenser	8479.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	2	USD	CO361	Φ325x6.5	15,923.08	31,846.15
57	heater	8419.31.40.00	China/Thailand/Japan/Switzerland/others	Nos	2	USD	HX300	Φ273x3.0	2,547.69	5,095.38
58	fan	8414.51.91.00	China/Thailand/Japan/Switzerland/others	Nos	2	USD	FN305	Q=30000m3/h；	9,730.77	19,461.54
59	heater	8419.31.40.00	China/Thailand/Japan/Switzerland/others	Nos	2	USD	HX305	500m2	10,615.38	21,230.77

60	DC dry cyclone	8421.39.90.00	China/Thailand/Japan/Switzerland/others	Nos	2	USD	CY311-312	SKL1400	8,280.00	16,560.00
61	DC cooling cyclone	8421.39.90.00	China/Thailand/Japan/Switzerland/others	Nos	3	USD	CY313	SKL1400	3,450.00	10,350.00
62	rotary valve	8481.80.88.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	RL311-313	GFW12	1,326.92	1,326.92
63	bucket elevator	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	2	USD	RE312	MCTG40	39,807.69	79,615.38
64	heat header	8402.90.90.00	China/Thailand/Japan/Switzerland/others	Nos	2	USD	TK390A	ф150×1200	6,192.31	12,384.62
65	heat header	8402.90.90.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	TK390B	ф150×1200	1,592.31	1,592.31
66	heat header	8402.90.90.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	TK390C	ф150×1200	353.85	353.85
67	water tank	7309.00.99.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	TK365	Φ1500x2000	6,192.31	6,192.31
68	water tank	7309.00.99.00	China/Thailand/Japan/Switzerland/others	Nos	3	USD	TK366	Φ600x0.85	2,919.23	8,757.69
69	condensate pump	8413	China/Thailand/Japan/Switzerland/others	Nos	1	USD	PU365A-B	Q：4m3/h；	3,273.08	3,273.08
71	solvent pump	8413.70.19.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	PU343A-B	Q：30m3/h；H：25m	4,423.08	4,423.08
72	solvent tank	7309.00.99.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	TK341-342	50m³	13,800.00	13,800.00
73	cooling tower	8419.50.10.00	China/Thailand/Japan/Switzerland/others	Nos	2	USD	CT001	750m3/h	0.00	0.00
74	high water tank	7309.00.99.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		2.5x1.5x3	5,307.69	5,307.69
75	circulating pump	8413	China/Thailand/Japan/Switzerland/others	Nos	1	USD	PU381-382	Q：800m³/h；H：28m	9,730.77	9,730.77
76	ventilation fan	8414.51.91.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	FN391-392	Q=20000m3/h；	4,865.38	4,865.38

77	water seal pool sewage pump	8413.70.19.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	PU391	Q：8m^3/h；	2,653.85	2,653.85
78	water seal pool sewage pump	8413.70.19.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	PU392	Q：8m^3/h；	2,653.85	2,653.85
79	crude oil tank	7309.00.99.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	TK500-502	Φ2500x7	7,076.92	7,076.92
80	oil pump	8413	China/Thailand/Japan/Switzerland/others	Nos	1	USD	PU500A-B	Q：25 m3/h；	3,450.00	3,450.00
81	sewage pump	8413	China/Thailand/Japan/Switzerland/others	Nos	1	USD	PU501B	Q：15 m^3/h；	5,573.08	5,573.08
83	waster heat complement	8479.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	TK600	BJQ1600	32,730.77	32,730.77
84	circulating pump	8413	China/Thailand/Japan/Switzerland/others	Nos	1	USD	PU601	Q：25 m3/h；	5,307.69	5,307.69
85	filter	8421.99.98.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	FI601	0.5m2	3,273.08	3,273.08
86	cyclone	8421.39.90.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	CY602	SKL1600	8,846.15	8,846.15
87	rotary valve	8481.80.88.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	RL602	GFW12	1,326.92	1,326.92
88	air tank	7309.00.99.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD	TK370	5m^3	5,307.69	5,307.69
89	Motor, control cabinet and capacitance cabinet	8538.10.19.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD			120,000.00	120,000.00
90	PLC system	8537.10.12.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD				
91	Computer control system	8537.10.12.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD				
92	cable & bridge	7308 / 8544	China/Thailand/Japan/Switzerland/others	Nos	1	USD			100,000.00	100,000.00
93	Sensor and control instrument	9026.10.10.00 / 9026.20.30.00 / 9026.80.10.00 / 9026.90.10.00 / 9032.89.39.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD			230,000.00	230,000.00
94	Valve, flange	8481 / 7307	China/Thailand/Japan/Switzerland/others	Nos	1	USD			70,000.00	70,000.00
95	pneumatic piping	7306	China/Thailand/Japan/Switzerland/others	Nos	1	USD			6,000.00	6,000.00
96	process line	7306	China/Thailand/Japan/Switzerland/others	Nos	1	USD			148,000.00	148,000.00

97	air network, air duct, etc	8414	China/Thailand/Japan/Switzerland/others	Nos	1	USD			15,000.00	15,000.00
98	spare parts, sealing materials, welding rod and other auxiliary materials	7307 / 4016 / 8311	China/Thailand/Japan/Switzerland/others	Nos	1	USD			10,000.00	10,000.00
99	paint	3208.10.90.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD			10,000.00	10,000.00
100	insulation material		China/Thailand/Japan/Switzerland/others	Nos	1	USD			50,000.00	50,000.00
1.2.3	Packaging workshop									326282.1538
1	scraper conveyor	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		TMSS25	12384.61538	12384.61538
2	bucket elevator	8479.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		TDTG60/33	11323.07692	11323.07692
3	scraper conveyor	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		TMSS25	12384.61538	12384.61538
4	pneumatic gate valve	8481.80.82.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		400*250	318.4615385	318.4615385
5	temporary storage tank	7309.00.99.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		600m^3	0	0
6	temporary storage tank	7309.00.99.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		600m^3	0	0
7	Discharge ground dragon	8479.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		TLSY25	3290.769231	3290.769231
8	Discharge ground dragon	8479.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		TLSY25	3290.769231	3290.769231
9	lift the scraper conveyor	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		TMCF40	30943.84615	30943.84615
10	scraper conveyor	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		TMSS32	9582.153846	9582.153846
11	pneumatic gate valve	8481.80.82.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		400*320	318.4615385	318.4615385
12	pneumatic gate valve	8481.80.82.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		400*320	318.4615385	318.4615385
13	pulse dust collector	8421.39.90.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		TBLMY52	9730.769231	9730.769231
14	fan	8414.51.91.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		DHF-Z-630C	1680.769231	1680.769231
15	packing scale	8423.30.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		DCS-70II	23000	23000
16	packing scale	8423.30.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		DCS-70II	23000	23000

17	belt conveyor	8428.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		PDSS650	9200	9200
18	mobile loader	8428.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD			15923.07692	15923.07692
19	compressed air tank	7309.00.99.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		$2m^3$	1592.307692	1592.307692
1	Motor, control cabinet and capacitance cabinet	8538.10.19.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD			100,000	100,000
2	PLC system	8537.10.12.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD				
3	Computer control system	8537.10.12.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD				
4	cable & bridge	7308 / 8544	China/Thailand/Japan/Switzerland/others	Nos	1	USD			12000	12,000
5	Sensor and control instrument	9026.10.10.00 / 9026.20.30.00 / 9026.80.10.00 / 9026.90.10.00 / 9032.89.39.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD			5000	5,000
6	Valve, flange	8481/ 7307	China/Thailand/Japan/Switzerland/others	Nos	1	USD			8000	8,000
7	pneumatic piping	7306	China/Thailand/Japan/Switzerland/others	Nos	1	USD			3000	3,000
8	process line	7306	China/Thailand/Japan/Switzerland/others	Nos	1	USD			6000	6,000
9	air network, air duct, etc	8414	China/Thailand/Japan/Switzerland/others	Nos	1	USD			12000	12,000
10	Standard parts, sealing materials, welding rod and other auxiliary materials	7307 / 4016 / 8311	China/Thailand/Japan/Switzerland/others	Nos	1	USD			3000	3,000
11	paint	3208.10.90.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD			3000	3,000
12	insulation material	6806.10.00.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD			6000	6,000
1.2.4 Transportation										**269,169**
1	Scraper conveyor	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		RE300	31293.69231	31,294
2	Scraper conveyor	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		RE301	16045.23077	16,045

3	Scraper conveyor	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		RE311	23778.76923	23,779
4	Scraper conveyor (stainless)	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		RE304	76649.38462	76,649
5	SC	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		SC301	11133.07692	11,133
6	SC	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		SC311	9730.461538	9,730
7	Scraper conveyor	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		RE100	7446.153846	7,446
8	Scraper conveyor	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		RE101	7415.384615	7,415
9	Scraper conveyor	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		RE102	8123.076923	8,123
10	Scraper conveyor	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		RE103	12615.38462	12,615
11	Scraper conveyor	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		RE104	9138.461538	9,138
12	Scraper conveyor	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		RE105	8138.461538	8,138
13	elevator	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		EL482	11153.84615	11,154
14	elevator	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		EL481	5338.461538	5,338
15	Scraper conveyor	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		RE481	5553.846154	5,554
16	Scraper conveyor	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		RE483	9123.076923	9,123
17	Scraper conveyor	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		RE484	5938.461538	5,938
18	Scraper conveyor	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		RE482	5938.461538	5,938
19	Scraper conveyor	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		RE485	4615.384615	4,615
1.2.5 Miscella Refining										**1,879,392**
1	acid tank	7309.00.99.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		TK323	6,062	6,062
2	acid pumps	8413	China/Thailand/Japan/Switzerland/others	Nos	2	USD		PU323	1,980	3,960
3	acid mix tank	7309.00.99.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		AG304	25,110	25,110
4	acid reaction tank	7309.00.99.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		TK305	44,000	44,000

5	acid and oil pumps	8413	China/Thailand/Japan/Switzerland/others	Nos	2	USD		PU305	5,189	10,378
6	cooling exchangers	8419.50.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		CO307	17,242	17,242
7	caustic mix tank	7309.00.99.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		AG308	25,110	25,110
8	caustic reaction tank	7309	China/Thailand/Japan/Switzerland/others	Nos	1	USD		AG310	16,362	16,362
9	time lag reaction tank	7309.00.99.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		R310	13,000	13,000
10	heat exchanges	8479.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		HX311	21,488	21,488
11	separator px110	8479.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		CF312	400,000	400,000
12	separator px80	8479.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		CF315	400,000	400,000
13	soap tank indoor	7309.00.99.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		TK332	31,280	31,280
14	soap tank outdoor	7309.00.99.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		TK808	13,600	13,600
15	soap pumps	8413	China/Thailand/Japan/Switzerland/others	Nos	1	USD		PU332	8,400	8,400
16	dilute caustic tanks	7309.00.99.00	China/Thailand/Japan/Switzerland/others	Nos	2	USD		TK321	12,000	24,000
17	dilute caustic pumps	8413	China/Thailand/Japan/Switzerland/others	Nos	2	USD		PU321	6,000	12,000
18	dense caustic tank	7309.00.99.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		TK807	8,400	8,400
19	dense caustic pumps	8413	China/Thailand/Japan/Switzerland/others	Nos	2	USD		PU807	6,000	12,000
20	other pumps	8413.70.19.00	China/Thailand/Japan/Switzerland/others	Nos	6	USD			5,000	30,000
21	Saponious dissolving system	8479.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD			200,000	200,000
22	Motor, control cabinet and capacitance cabinet	8538.10.19.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD				
23	PLC	8537.10.12.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD			100,000	100,000
24	Computer control system	8537.10.12.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD				
25	cable & bridge	7308 / 8544	China/Thailand/Japan/Switzerland/others	Nos	1	USD			12,000	12,000

26	Sensor and control instrument	9026.10.10.00 / 9026.20.30.00 / 9026.80.10.00 / 9026.90.10.00 / 9032.89.39.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD			8,000	8,000
27	Valve, flange	8481 / 7307	China/Thailand/Japan/Switzerland/others	Nos	1	USD			60,000	60,000
28	pneumatic piping	7306	China/Thailand/Japan/Switzerland/others	Nos	1	USD			5,000	5,000
29	process line	7306	China/Thailand/Japan/Switzerland/others	Nos	1	USD			30,000	30,000
30	air network, air duct, etc	8414	China/Thailand/Japan/Switzerland/others	Nos	1	USD			3,000	3,000
31	Standard parts, sealing materials, welding rod and other auxiliary materials	7307 / 4016/ 8311	China/Thailand/Japan/Switzerland/others	Nos	1	USD			6,000	6,000
32	paint	3208.10.90.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD			3,000	3,000
33										
34	insulation material	6806.10.00.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD			30,000	30,000
35	Soapstock desolventizer	8479.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD			300,000	300,000
1.2.6 Lab Equipment										**187,195**
1	Near infrared analyzer (cereal)	9027	China/Thailand/Japan/Switzerland/others		1			DA7200	57,231	57,231
2	Near infrared analyzer (cereal)	9027	China/Thailand/Japan/Switzerland/others		1			DA7200	57,231	57,231
3	Gas chromatograph	9027.20.10.00	China/Thailand/Japan/Switzerland/others		1			GC-2010PLUS	42,462	42,462
4	Automatic nitrogen determination instrument	8438	China/Thailand/Japan/Switzerland/others		1			KDN-102F	1,499	1,499
5	Fiber tester	8438	China/Thailand/Japan/Switzerland/others		1			SLQ-6	1,499	1,499
6	Fat analyzer	8438	China/Thailand/Japan/Switzerland/others		1			SZC-D	1,467	1,467
7	water purifier	8438	China/Thailand/Japan/Switzerland/others		1			DW100	536	536
8	Pure water hydrogen generator	8438	China/Thailand/Japan/Switzerland/others		1			SPE-300	1,218	1,218

9	Silent oil free air compressor	8414.80.49.00	China/Thailand/Japan/Switzerland/others		1			HV-3	379	379
10	Grain moisture meter	8438	China/Thailand/Japan/Switzerland/others		4			PM-8188-A	480	1,920
11	Electronic balance	8423.81.10.00	China/Thailand/Japan/Switzerland/others		1			BS-124S	928	928
12	Electronic balance	8423.81.10.00	China/Thailand/Japan/Switzerland/others		1			JJ500	129	129
13	micro plant grinding machine	8438.80.91.00	China/Thailand/Japan/Switzerland/others		2			FZ102	111	222
14	Hammer whirlwind mill	8438	China/Thailand/Japan/Switzerland/others		1			JXFM110	1,180	1,180
15	Inspection sieves	8438.80.91.00	China/Thailand/Japan/Switzerland/others		1			ZS-200	742	742
16	Electronic fabric strength tester	8438	China/Thailand/Japan/Switzerland/others		1			YG026C	2,651	2,651
17	Carton Compression Tester	8438	China/Thailand/Japan/Switzerland/others		1			AG-018C	2,824	2,824
18	Bulk density	8438	China/Thailand/Japan/Switzerland/others		1			GHCS-1000	572	572
19	Lovibond tintometer	8438	China/Thailand/Japan/Switzerland/others		1			MODEL F	6,113	6,113
20	Horizontal pattern sampler	8438.80.91.00	China/Thailand/Japan/Switzerland/others		1			JFYZ-D	44	44
21	Bottle distributor	8438	China/Thailand/Japan/Switzerland/others		1			Dispensette Organic	1,105	1,105
22	Bottle distributor	8438	China/Thailand/Japan/Switzerland/others		1			DISPENSETTE-50ML	646	646
23	Bottle distributor	8438	China/Thailand/Japan/Switzerland/others		1			DISPENSETTE-50ML	646	646
24	Digital titration instrument	8438	China/Thailand/Japan/Switzerland/others		1			5E+06	960	960
25	Digital titration instrument	8438	China/Thailand/Japan/Switzerland/others		1			5E+06	960	960
26	Dryer oven	8419.31.40.00	China/Thailand/Japan/Switzerland/others		1			FD53	2,031	2,031

1.27 Acidulation Equipment										400,000
1	Reaction tank	7309	China/Thailand/Japan/Switzerland/others	Nos	2		30M3		25,000	50,000
2	Separation tank	7309	China/Thailand/Japan/Switzerland/others	Nos	1		25M3		30,000	30,000
3	Smell collection	7309	China/Thailand/Japan/Switzerland/others	Nos	1				20,000	20,000
4	Water seal tank	7309	China/Thailand/Japan/Switzerland/others	Nos	1				20,000	20,000
5	Sedimentation tank	7309	China/Thailand/Japan/Switzerland/others	Nos	1				20,000	20,000
6	Acid sunfuric tank	7309	China/Thailand/Japan/Switzerland/others	Nos	1				20,000	20,000
7	Pumps	8413	China/Thailand/Japan/Switzerland/others	Nos	1				80,000	80,000
8	Electric instrument	8538	China/Thailand/Japan/Switzerland/others	Nos	1				60,000	60,000
9	Electrical system	8538	China/Thailand/Japan/Switzerland/others	Nos	1				80,000	80,000
10	Valves and instrument	8481 / 9026	China/Thailand/Japan/Switzerland/others	Nos	1				20,000	20,000
	TOTAL RICE BRAN OIL M&E AND LAB EQUIPMENT					**USD**				**7,081,846.50707692**

1.3 BREAKDOWN (SILO AND ACCESSORIES)

S/N	ITEM	HS Code	COUNTRY OF ORIGIN	Unit	QUANTITY	CURRENCY	SPECIFICATION	MODEL	UNIT PRICE (USD)	TOTAL (USD)
1	Airtight Heat Insulation Steel Silo	7309.00.91.00	China/Thailand/Japan/Switzerland/others	Nos	24	USD		3000T	256,342.79	8,202,969.42
2	Heat Insulation Steel Silo	7309.00.91.00	China/Thailand/Japan/Switzerland/others	Nos	2	USD		1500T	120,000.00	441,376.80
3	spin vibration sieve	8437.80.51.00	China/Thailand/Japan/Switzerland/others	Nos	6	USD		50-150T/H	26,000.00	156,000.00
4	Control of the computer	8537	China/Thailand/Japan/Switzerland/others	Nos	2	USD			1,000.00	2,000.00
5	PLC control and monitoring system	8537	China/Thailand/Japan/Switzerland/others	Nos	1	USD			200,000.00	200,000.00
6	Storage cooler	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	5	USD			30,000.00	150,000.00
7	Vertical suction duct	8414	China/Thailand/Japan/Switzerland/others	Nos	6	USD			12,000.00	72,000.00
8	DRUM SIFTER	8437.80.51.00	China/Thailand/Japan/Switzerland/others	Nos	6	USD		120T/H	24,920.00	149,520.00
9	FLOW METER	9026.10.30.00	China/Thailand/Japan/Switzerland/others	Nos	3	USD		300T/H	150,000.00	450,000.00
10	Drying tower	8419.31.40.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		25T/H	750,000.00	750,000.00
11	Stainless steel Heat exchanger	8419.50.92.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		1300*2800*1300	59,400.00	59,400.00
12	Circulating air separator	8437.80.51.00	China/Thailand/Japan/Switzerland/others	Nos	3	USD		20T/H	15,000.00	45,000.00
13	DUST SUCTION FAN	8414.51.91.00	China/Thailand/Japan/Switzerland/others	Nos	6	USD			6,238.00	37,428.00
14	BAG FILTER	8421.99.98.00	China/Thailand/Japan/Switzerland/others	Nos	6	USD			13,651.80	81,910.80
15	Cyclone Separator	8414.51.91.00	China/Thailand/Japan/Switzerland/others	Nos	6	USD		50 D1000	4,000.00	24,000.00
16	AIR LOCK	8414.80.19.00	China/Thailand/Japan/Switzerland/others	Nos	6	USD		16-24L	1,399.50	8,396.98

17	CHAIN CONVEYER	8428.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	3	USD		300T/H	19,653.24	58,959.72
18	CHAIN CONVEYER	8428.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	40	USD		300T/H	19,653.24	786,129.60
19	BUCKET ELEVATOR	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	3	USD			17,207.85	51,623.56
20	CHAIN CONVEYER	8428.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	3	USD		300T/H	19,653.24	58,959.72
21	BUCKET ELEVATOR	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	3	USD			17,207.85	51,623.56
22	BUCKET ELEVATOR	8428.39.10.00	China/Thailand/Japan/Switzerland/others	lot	1	USD			172,078.52	172,078.52
23	CHAIN CONVEYER	8428.20.10.00	China/Thailand/Japan/Switzerland/others	lot	1	USD		300T/H	199,653.24	199,653.24
24	CHAIN CONVEYER	8428.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	3	USD		300T/H	19,653.24	58,959.72
25	BUCKET ELEVATOR	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	3	USD			17,207.85	51,623.56
26	air film conveyer	8428	China/Thailand/Japan/Switzerland/others	lot	1	USD			600,000.00	600,000.00
27	air film conveyer	8428	China/Thailand/Japan/Switzerland/others	lot	1	USD			100,000.00	200,000.00
28	temperature transmitter	9026.80.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD			1,300.00	1,300.00
29	air storage tank	7309.00.99.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD		$5m^3$	1,300.00	1,300.00
30	loader	8428	China/Thailand/Japan/Switzerland/others	Nos	1	USD			30,000.00	30,000.00
31	Rotary distributor	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	2	USD			7,200.00	14,400.00
32	Infrared thermometer	8428.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD			300.00	300.00
33	Laser rangefinder	8428.20.10.00	China/Thailand/Japan/Switzerland/others	Nos	2	USD			300.00	600.00
34	Hand thermometer	8428	China/Thailand/Japan/Switzerland/others	Nos	2	USD			500.00	1,000.00
35	Oxygen meter	9027	China/Thailand/Japan/Switzerland/others	Nos	2	USD			800.00	1,600.00
36	Electric hoist	8425.11.00.00	China/Thailand/Japan/Switzerland/others	Nos	1	USD			2,000.00	2,000.00

37	Big miscellaneous cans	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	2	USD			70,000.00	140,000.00
38	bunker cleaner	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	84	USD			47,200.00	3,964,800.00
39	Pneumatic damper	8428	China/Thailand/Japan/Switzerland/others	lot	180	USD			800.00	144,000.00
40	Pneumatic damper	8428	China/Thailand/Japan/Switzerland/others	lot	100	USD			800.00	80,000.00
41	curved scraper	8428.39.10.00	China/Thailand/Japan/Switzerland/others	Nos	4	USD		300T/H	20,000.00	80,000.00
42	Equipment platform, bracket, pipe	7308	China/Thailand/Japan/Switzerland/others	lot	1	USD			200,000.00	200,000.00
43	air film conveyer	8428	China/Thailand/Japan/Switzerland/others	lot	1	USD		300T/H	100,000.00	200,000.00
44	Valve control cabinet	8538	China/Thailand/Japan/Switzerland/others	Nos	2	USD			1,491.84	2,983.68
45	Electric valve	8481	China/Thailand/Japan/Switzerland/others	Nos	40	USD			1,200.00	48,000.00
	TOTAL SILO AND ACCESSORIES					**USD**				**18,031,896.86**

1.4 BREAKDOWN (BOILER, TURBINE AND ACCESSORIES)

S/N	ITEM	HS Code	Unit	QUANTITY	CURRENCY	SPECIFICATION	MODEL	UNIT PRICE (USD)	TOTAL (USD)
Preparation Workshop									
1.4.1	Boiler								2,844,770.00
1.4.1.1	boiler	8402.19.21.00		2	USD		UG-50/5.3-M	730000	1460000
1.4.1.2	Primary Fan	8414.20.90.00		2	USD		33000m3/h,12600Pa	62600	125200
1.4.1.3	Secondary fan	8414.20.90.00		2	USD		33000m3/h,10200Pa	43700	87400
1.4.1.4	Draft fan	8414.20.90.00		2	USD		108000m3/h,7200Pa	84500	169000
1.4.1.5	Return fan	8414.20.90.00		4	USD		600m3/h,45000Pa	5800	23200
1.4.1.6	Husk feeder	8428		2	USD			135600	271200
1.4.1.7	Others fuel silo	7309.00.99.00		2	USD			14560	29120
1.4.1.8	Add sand device	8414		2	USD			8750	17500
1.4.1.9	Bag filter	8421.99.98.00		2	USD			232900	465800
1.4.1.10	Water trap	8404		1	USD		V=30m3	11650	11650
1.4.1.11	Drain pump	8413.19.10.00		2	USD		Q=40m3/h H=50mH2O	2900	5800
1.4.1.12	Expansion container	8404.10.19.00		3	USD			7800	23400
1.4.1.13	Electric hoist	8425.11.00.00		7	USD			4700	32900
1.4.1.14	Shock soot blower	8404.10.11.00		2	USD			43700	87400
1.4.1.15	Diesel tank	7309.00.99.00		1	USD			14600	14600
1.4.1.16	Diesel pump	8413.11.00.00		2	USD			8800	17600
1.4.1.17	Oil discharge pump	8413.11.00.00		1	USD			3000	3000
1.4.2	Turbine								2630850
1.4.2.1	Extraction condensing steam turbine	8406.82.90.00		2	USD		P=4.9MPa, t=470℃	620000	1240000
1.4.2.2	Electric generator	8502		2	USD		N=7.5MW, V=10kV	185000	370000
1.4.2.3	Condensate pump	8413		4	USD		Q=30m3/h,P=61mH2O	4400	17600
1.4.2.4	Electric feed pump	8413.19.10.00		3	USD	Q=60m3/h P=800mH2O t=1		120000	360000
1.4.2.5	Emergency feed pump	8413.19.20.00		1	USD	Q=20m3/h P=600mH2O t=1		87500	87500
1.4.2.6	Vacuum pump	8414.10.00.00		2	USD			41000	82000

1.4.2.7	Deaerator	8404.10.19.00		2	USD		,Q=60t/h	36500	73000
1.4.2.8	Desuperheater	8404.10.19.00		1	USD			12650	12650
1.4.2.9	Temperature and pressure reducer	8481.11.00.00		3	USD			24750	74250
1.4.2.10	Rubber ball cleaning device	8406.90.00.00		2	USD			21850	43700
1.4.2.11	Accident oil tank	7309		1	USD		V=5.0m3	8750	8750
1.4.2.12	Plate and frame oil filter	8421.23.21.00		1	USD			4400	4400
1.4.2.13	Mobile turbine oil filter	8421.23.21.00		1	USD			19000	19000
1.4.2.14	Slow speed electric double girder bridge crane	8426		2	USD		G=25/5t, Lk=13.5m	73000	146000
1.4.2.15	condensate transfer pump	8413.19.10.00		1	USD		Q=25m3/h P=50mH2O	4400	4400
1.4.2.16	Condensate recovery tank	7309.00.99.00		2	USD		V=100m3	43800	87600
1.4.3	**Rice husk delivery system**								**1050100**
1.4.3.1	Screw unloader	8428.39.10.00		1	USD		N=4X5.5KW	29500	29500
1.4.3.2	Large angle rib belt conveyor	8428.20.10.00		1	USD		Q=7t/h Ln=36.4m H=27m	44000	44000
1.4.3.3	Belt conveyor	8428.33.10.00		1	USD		B=650 Q=7t/h Ln=31.15r	14600	14600
1.4.3.4	Iron remover	8437		1	USD			4400	4400
1.4.3.5	Crusher	8428		1	USD			14600	14600
1.4.3.6	Husk Negative pressure delivery system	8428		2	USD			66500	133000
1.4.3.7	Husk pneumatic conveying system	8428		3	USD			270000	810000
1.4.4	**Ash system**								**226290**
1.4.4.1	Ash Tank	7309.00.99.00		1	USD			90000	90000
1.4.4.2	Pressure vacuum relief valve	8481.40.90.00		1	USD			1100	1100
1.4.4.3	Double side bottom discharger	8428		1	USD		KD-150S	1750	1750
1.4.4.4	Dry ash bulk machine	8428		1	USD		SZ-100, Q=100t/h, 3.75k	6550	6550
1.4.4.5	Double shaft mixer	8428		1	USD		JS-100,N=22KW	12400	12400
1.4.4.6	Gasification fan	8414		1	USD		BK5003, N=5.5KW	19200	19200
1.4.4.7	Packing Machine	8423.30.10.00		1	USD			7300	7300
1.4.4.8	Rotary feeder	8414.80.19.00		12	USD			1500	18000
1.4.4.9	Switching valve	8481.80.82.00		4	USD			1900	7600
1.4.4.10	Combined dust collector	8414.51.91.00		2	USD			8500	17000
1.4.4.11	Highly sealed spiral feeder	8414		2	USD		DN350 N=2.2KW	4300	8600
1.4.4.12	Roots vacuum pump	8414.10.00.00		2	USD			5750	11500
1.4.4.13	Operating system	8538.10.19.00		2	USD			1820	3640
1.4.4.14	spare parts	8428.90.90.00		1	USD			21650	21650

1.4.5	**Slag removal system**								**214360**
1.4.5.1	Roller type slag cooler	8419		4	USD			16200	64800
1.4.5.2	Manual high temperature ash gate valve	8481		6	USD			1460	8760
1.4.5.3	Slag scraper	8428.20.10.00		1	USD			45200	45200
1.4.5.4	Slag conveyor bucket elevator	8428.39.10.00		1	USD		TH315 Q=5t/h H=~22m N=7.	36400	36400
1.4.5.5	Slag tank	7309.00.99.00		1	USD		V=70m3 D=4m	42000	42000
1.4.5.6	Dry slag bulk machine	8419		1	USD		SZ-100 Q=100t/h N=3+0.75	6550	6550
1.4.5.7	Pressure vacuum relief valve	8481.40.90.00		1	USD		508	1100	1100
1.4.5.8	Bag filter	8421.99.98.00		1	USD		DMC-24F,N=1.5KW	3100	3100
1.4.5.9	Slag tank operation station	8538		1	USD			3000	3000
1.4.5.10	spare parts	8419.90.19.00		1	USD			3450	3450
1.4.6	**Thermal control system**								**1695600**
1.4.6.1	Boiler thermal control system	8538		1	USD			450000	450000
1.4.6.2	Turbine thermal control system	8538.10.19.00		1	USD			150000	150000
1.4.6.3	Feed water control system	8538.10.19.00		1	USD			172000	172000
1.4.6.4	Water treatment system(Including the pump roo	8538		1	USD			25000	25000
1.4.6.5	DCS	8538		1	USD			450000	450000
1.4.6.6	Thermal power distribution cabinet	8538.10.19.00		1	USD			14000	14000
1.4.6.7	video monitoring	8531		1	USD			58300	58300
1.4.6.8	Fire alarm system	8531.10.20.00		1	USD			58300	58300
1.4.6.9	Cables and accessories	8544		1	USD			318000	318000
	Total								**8,661,970.00**

1.5 Water Treatment System

S/N	ITEM	HS Code	Unit	QUANTITY	CURRENCY	SPECIFICATION	MODEL	UNIT PRICE (USD)	TOTAL (USD)
1.5	Water Treatment System								3,366,100.00
1.5.1	Flocculation sedimentation tank	7309.00.99.00		1	USD		Q=500t/h	65,500.00	65,500.00
1.5.2	Raw water pump	8413.20.10 00		3	USD		Q=280m3/h H=55m	8,750.00	26,250.00
1.5.3	Manganese sand filter	8421.99.98.00		9	USD			24,800.00	223,200.00
1.5.4	Raw water tank	7309.00.99.00		1	USD		V=2000m3	190,000.00	190,000.00
1.5.5	UF water feed pump	8413.70.19.00		3	USD			7,300.00	21,900.00
1.5.6	Filter backwash pump	8413.70.19.00		2	USD			7,300.00	14,600.00
1.5.7	Self-cleaning filter	8421.99.98.00		1	USD			17,500.00	17,500.00
1.5.8	UF	8421.99.98.00		2	USD			180,000.00	360,000.00
1.5.9	UF production water tank	7309.00.99.00		1	USD		200m³	26,200.00	26,200.00
1.5.10	RO feed water pump	8413.20.10 00		6	USD			5,850.00	35,100.00
1.5.11	Security filter	8421.99.98.00		4	USD			4,500.00	18,000.00
1.5.12	1st High-pressure pump	8413.70.19.00		2	USD		Q=211m3/h H=220m	51,000.00	102,000.00
1.5.13	1st RO	8421.99.98.00		2	USD			240,000.00	480,000.00
1.5.14	1st RO production water tank	7309.00.99.00		1	USD			190,000.00	190,000.00
1.5.15	UV Rice mill water pump	8413.20.10 00		2	USD			3,000.00	6,000.00
1.5.16	2nd High-pressure pump	8413.70.19.00		2	USD		Q=44m3/h H=120m	13,000.00	26,000.00
1.5.17	2nd RO	8421.99.98.00		2	USD			58,300.00	116,600.00
1.5.18	RO flushing water pump	8413.20.10 00		2	USD			5,850.00	11,700.00
1.5.19	UF Backwashing pump	8413.70.19.00		2	USD			5,850.00	11,700.00
1.5.20	Cleaning water tank	7309.00.99.00		1	USD			3,000.00	3,000.00
1.5.21	Cleaning water pump	8413.20.10 00		1	USD			4,400.00	4,400.00
1.5.22	Cleaning filter	8421.99.98.00		1	USD			5,850.00	5,850.00
1.5.23	Dosing device	8421.99.99.00		7	USD			9,000.00	63,000.00
1.5.24	Decarboner	7309.00.99.00		1	USD			10,000.00	10,000.00
1.5.25	middle water tank	7309.00.99.00		1	USD			7,300.00	7,300.00

1.5.26	middle water pump	8413.20.10 00		2	USD			3,000.00	6,000.00
1.5.27	Sodium ion exchanger	7309.00.99.00		2	USD			13,100.00	26,200.00
1.5.28	Resin trap	8421.99.99.00		2	USD			2,200.00	4,400.00
1.5.29	Desalting water tank	7309.00.99.00		1	USD			65,500.00	65,500.00
1.5.30	Desalting water pump	8413.20.10 00		2	USD			4,400.00	8,800.00
1.5.31	External water supply pump	8413.20.10 00		2	USD			1,500.00	3,000.00
1.5.32	Regenerative water pump	8413.20.10 00		2	USD			1,500.00	3,000.00
1.5.33	Air tank	7309.00.99.00		1	USD			4,400.00	4,400.00
1.5.34	Neutralization system	7309.00.99.00		1	USD			29,000.00	29,000.00
1.5.35	Boiler dosing system	8421.99.99.00		1	USD			19,000.00	19,000.00
1.5.36	Automatic sampling device	7309.00.99.00		1	USD			120,000.00	120,000.00
1.5.37	River water pump	8413.20.10 00		2	USD			95,000.00	190,000.00
1.5.38	Mechanical ventilation cooling tower	7309.00.99.00		2	USD			116,500.00	233,000.00
1.5.39	Circulating pump	8413.70.19.00		3	USD			109,200.00	327,600.00
1.5.40	Industrial cooling water pump	8413.20.10 00		2	USD			3,000.00	6,000.00
1.5.41	Fire water tank	7309.00.99.00		2	USD			110,000.00	220,000.00
1.5.42	Fire pump	8413.70.19.00		2	USD			12,400.00	24,800.00
1.5.43	Fire voltage stabilizer pump	8413.70.19.00		2	USD			2,200.00	4,400.00
1.5.44	Fire voltage stabilizer tank	7309.00.99.00		1	USD			1,500.00	1,500.00
1.5.45	Submersible pump	8413.70.19.00		6	USD			750.00	4,500.00
1.5.46	Fire-fighting equipment	31.10.20.00 / 8531.10.20.00		1	USD			29,200.00	29,200.00
	Total								**3,366,100.00**

Wastewater Treatment System

S/N	ITEM	HS Code	COUNTRY OF ORIGIN	Unit	QUANTITY	CURRENCY	SPECIFICATION	MODEL	UNIT PRICE (USD)	TOTAL (USD)
	Wastewater Treatment System									428,117.58
1	ACC Pond pump	8421.21.22.00	China/Thailand/Japan/Switzerland/others	set	2	USD	Q=20m³/h 至Q=30m3/h		2,560.61	5,121.21
2	EQ Pond 1 pump	8421.21.22.00	China/Thailand/Japan/Switzerland/others	set	2	USD	Q=10m³/h 至Q=15m3/h		1,821.97	3,643.94
3	EQ Pond 2 pump	8421.21.22.00	China/Thailand/Japan/Switzerland/others	set	2	USD	Q=45m³/h 至Q=50m3/h		3,151.52	6,303.03
4	1st Claririfer recycle Pump	8421.21.22.00	China/Thailand/Japan/Switzerland/others	set	2	USD	Q=30m³/h 至Q=40m3/h		1,666.66	3,333.32
5	Sludge Dewater Pump	8421.21.22.00	China/Thailand/Japan/Switzerland/others	set	2	USD	Q=10m³/h 至Q=15m3/h		2,559.70	5,119.40
6	2nd Claririfer recycle Pump	8421.21.22.00	China/Thailand/Japan/Switzerland/others	set	2	USD	Q=45m³/h 至Q=50m3/h		1,772.73	3,545.45
7	3rd Claririfer recycle Pump	8421.21.22.00	China/Thailand/Japan/Switzerland/others	set	2	USD	Q=45m³/h 至Q=50m3/h		1,772.73	3,545.45
8	Wasterwater Pump	8421.21.22.00	China/Thailand/Japan/Switzerland/others	set	2	USD	Q=15m³/h 至Q=20m3/h		758.33	1,516.67
9	Blower	8421.21.22.00	China/Thailand/Japan/Switzerland/others	set	2	USD	Q=8.52m3/min至Q=10m3 /min		8,272.73	16,545.46
10	Acoustic enclosure	8421.21.22.00	China/Thailand/Japan/Switzerland/others	set	2	USD			4,431.82	8,863.64
11	DAF	8421.21.22.00	China/Thailand/Japan/Switzerland/others	set	1	USD			40,000.00	40,000.00
12	Dissolved air pump	8421.21.22.00	China/Thailand/Japan/Switzerland/others	set	2	USD	Q=25m³/h 至Q=30m3/h		1,265.63	2,531.25
13	Dissolved air tank	8421.21.22.00	China/Thailand/Japan/Switzerland/others	set	1	USD			4,000.00	4,000.00
14	Air compressor	8421.21.22.00	China/Thailand/Japan/Switzerland/others	set	1	USD			1,265.63	1,265.63
15	Agitator	8421.21.22.00	China/Thailand/Japan/Switzerland/others	set	7	USD			1,000.00	7,000.00
	Acid addition system		China/Thailand/Japan/Switzerland/others	set	1	USD			4,705.00	4,705.00
16	Lime addition system	8421.21.22.00	China/Thailand/Japan/Switzerland/others	set	1	USD			36,500.00	36,500.00
17	PAC addition system	8421.21.22.00	China/Thailand/Japan/Switzerland/others	set	1	USD			10,000.00	10,000.00
18	PAM addition system	8421.21.22.00	China/Thailand/Japan/Switzerland/others	set	1	USD			11,000.00	11,000.00

19	Dephosphorization(FeCl3) addition system	8421.21.22.00	China/Thailand/Japan/Switzerland/others	set	1	USD			6,553.13	6,553.13
	Sodium hypochlorite addition system		China/Thailand/Japan/Switzerland/others	set	1	USD			2,550.00	2,550.00
20	Filter Machine	8421.21.22.00	China/Thailand/Japan/Switzerland/others	set	1	USD			76,000.00	76,000.00
21	Sludge scraper	8421.21.22.00	China/Thailand/Japan/Switzerland/others	set	2	USD			20,000.00	40,000.00
22	Oil scraper	8421.21.22.00	China/Thailand/Japan/Switzerland/others	set	1	USD			5,000.00	5,000.00
23	aerator	8421.21.22.00	China/Thailand/Japan/Switzerland/others	lot	1	USD	DN260		50,625.00	50,625.00
24	Ultrasonic level meter	9026.10.30.00	China/Thailand/Japan/Switzerland/others	set	11	USD			1,350.00	14,850.00
25	PH meter	9027.80.30.00	China/Thailand/Japan/Switzerland/others	set	4	USD	含电极、变送器、支架		3,000.00	12,000.00
26	Electromagnetic flowmeter	9026.10.30.00	China/Thailand/Japan/Switzerland/others	set	23	USD	DN25至DN50		2,000.00	46,000.00
	Piping materials									**272,643.01**
1	pipe	7306	China/Thailand/Japan/Switzerland/others	lot	1	USD	DN15至DN250		70,796.76	70,796.76
2	elbow	7306	China/Thailand/Japan/Switzerland/others	lot	1	USD	DN15至DN250		5,825.32	5,825.32
3	tee joint	7306	China/Thailand/Japan/Switzerland/others	lot	1	USD			120.43	120.43
4	pipe hoop	7306	China/Thailand/Japan/Switzerland/others	lot	1	USD	DN15至DN80		202.26	202.26
5	valve	8481	China/Thailand/Japan/Switzerland/others	lot	1	USD	DN15至DN250		33,003.58	33,003.58
6	flange	7306	China/Thailand/Japan/Switzerland/others	lot	1	USD	DN15至DN250		11,905.00	11,905.00
7	blank flange	7306	China/Thailand/Japan/Switzerland/others	lot	1	USD	DN15至DN250		306.38	306.38
8	reducing pipe	7306	China/Thailand/Japan/Switzerland/others	lot	1	USD			319.20	319.20
9	flexible joint	7306	China/Thailand/Japan/Switzerland/others	lot	1	USD	DN15至DN250		3,912.26	3,912.26
10	FRP grate	3925	China/Thailand/Japan/Switzerland/others	M2	22	USD			126.56	2,784.41
11	rail	7306	China/Thailand/Japan/Switzerland/others	lot	1	USD			33,753.60	33,753.60
12	G .Sgrate	7308	China/Thailand/Japan/Switzerland/others	M2	40	USD			126.56	5,062.56
13	Steel ladder	7308	China/Thailand/Japan/Switzerland/others	M	20	USD			365.63	7,312.56

14	steel	7308	China/Thailand/Japan/Switzerland/others	T	3	USD			1,687.50	5,062.50
15	sludge tank	8421	China/Thailand/Japan/Switzerland/others	piece	2	USD			12,656.26	25,312.51
16	Pressure Gauge	9026.20.40.00	China/Thailand/Japan/Switzerland/others	lot	1	USD			4,095.14	4,095.14
17	bolt	7415	China/Thailand/Japan/Switzerland/others	lot	1	USD			2,532.00	2,532.00
18	U clamp	7308	China/Thailand/Japan/Switzerland/others	lot	1	USD			902.40	902.40
19	PVC Glue	3506	China/Thailand/Japan/Switzerland/others	kg	6	USD			36.56	219.38
20	gasket	4016.93.90.00	China/Thailand/Japan/Switzerland/others	lot	1	USD			338.40	338.40
21	brush	9603.40.00.00	China/Thailand/Japan/Switzerland/others	lot	1	USD			84.24	84.24
22	PEFT belt	4016	China/Thailand/Japan/Switzerland/others	lot	1	USD			42.12	42.12
23	Lab Equipments and Facilities	8438/ 9027	China/Thailand/Japan/Switzerland/others	lot	1	USD			40,000.00	40,000.00
24	Network System	8538	China/Thailand/Japan/Switzerland/others	lot	1	USD			7,812.50	7,812.50
25	Monitoring System	8538	China/Thailand/Japan/Switzerland/others	lot	1	USD			7,812.50	7,812.50
26	Air-conditioning	8415	China/Thailand/Japan/Switzerland/others	PC	2	USD			1,562.50	3,125.00
	TOTAL					**USD**				**700,760.60**

1.7 BREAKDOWN (FIRE FIGHTING SYSTEM)

S/N	ITEM	HS Code	COUNTRY OF ORIGIN	Unit	QUANTITY	CURRENCY	SPECIFICATION	MODEL	UNIT PRICE (USD)	TOTAL (USD)
Preparation Workshop										
1	Hose rack or Hose reel + Hydrant + Alarm System	8531	China/Thailand/Japan/Switzerland/others	Set	1	USD			321,281.25	321,281.25
2	Sprinkler system	8531	China/Thailand/Japan/Switzerland/others	Set	1	USD			425,500.00	425,500.00
3	Fire Fighting Pump and auxiliaries (2000 GPM)	8413	China/Thailand/Japan/Switzerland/others	Lot	1	USD			425,000.00	425,000.00
4	Fire Suppression System	8531	China/Thailand/Japan/Switzerland/others	Set	1	USD			50,000.00	50,000.00
5	Fire Monitor for silo	8487	China/Thailand/Japan/Switzerland/others	Nos	39	USD			1,300.00	50,700.00
6	Fire Water Tank (1000 Ton)	7309	China/Thailand/Japan/Switzerland/others	Nos	2	USD			100,535.13	201,070.26
TOTAL FIRE FIGHTING EQUIPMENT						**USD**				**1,473,551.51**

1.8 Electrical Power, Lighting, Security and Safety, HVAC Systems

S/N	ITEM	HS Code	COUNTRY OF ORIGIN	Unit	QUANTITY	CURRENCY	SPECIFICATION	MODEL	UNIT PRICE (USD)	TOTAL (USD)
1.8	Electrical Power, Lighting, Security and Safety, HVAC Systems									
1.8.1	Rice Mill Electrical									5,466,818.18
1.8.1.1	transformer	504	China/Thailand/Japan/Switzerland/others	Nos	3	USD		4000KVA	106,000.00	318,000.00
1.8.1.2	UPS	8504	China/Thailand/Japan/Switzerland/others	Nos	2	USD		10KVA	20,000.00	40,000.00
1.8.1.3	MVD Cabinet	8538	China/Thailand/Japan/Switzerland/others	SET	10	USD			18,000.00	180,000.00
1.8.1.4	Remote control panel	8537	China/Thailand/Japan/Switzerland/others	lot	1	USD			30,000.00	30,000.00
1.8.1.5	Operation station	8458	China/Thailand/Japan/Switzerland/others	lot	1	USD			5,000.00	5,000.00
1.8.1.6	PLC cabinet	8538	China/Thailand/Japan/Switzerland/others	lot	1	USD			700,000.00	700,000.00
1.8.1.7	MCC cabinet	8538	China/Thailand/Japan/Switzerland/others	lot	1	USD			1,200,000.00	1,200,000.00
1.8.1.8	Bus bar duct	8544	China/Thailand/Japan/Switzerland/others	Nos	10	USD		4000A	90,000.00	900,000.00
1.8.1.9	Power cable	8544	China/Thailand/Japan/Switzerland/others	lot	1	USD			1,090,000.00	1,090,000.00
1.8.1.10	Cable tray	7308	China/Thailand/Japan/Switzerland/others	lot	1	USD			472,000.00	472,000.00
1.8.1.11	Lighting	8539	China/Thailand/Japan/Switzerland/others	lot	1	USD		220V	163,000.00	163,000.00
1.8.1.12	Instrument	8538	China/Thailand/Japan/Switzerland/others	lot	1	USD			131,000.00	131,000.00
1.8.1.13	Junction box	8538	China/Thailand/Japan/Switzerland/others	lot	1	USD			54,818.18	54,818.18
1.8.1.14	Electric spare part	8538	China/Thailand/Japan/Switzerland/others	lot	1	USD	8538.10.19.00		180,000.00	180,000.00
1.8.1.15	Power Distribution Box	8538	China/Thailand/Japan/Switzerland/others	lot	1	USD			3,000.00	3,000.00
1.8.3	Silo Electrical								200,000.00	1,535,000.00

1.8.3.1	MCC cabinet	8538	China/Thailand/Japan/Switzerland/others	Nos	28	USD	8538.10.19.00		25,000.00	700,000.00
1.8.3.2	Instrument and accessory	8538	China/Thailand/Japan/Switzerland/others	lot	1	USD	8538.10.19.00		200,000.00	200,000.00
1.8.3.3	Lighting system	8539	China/Thailand/Japan/Switzerland/others	lot	1	USD			223,000.00	223,000.00
1.8.3.4	Cable tray	7308.90.99.00	China/Thailand/Japan/Switzerland/others	lot	1	USD			400,000.00	400,000.00
1.8.3.5	UPS	8504	China/Thailand/Japan/Switzerland/others	Nos	2	USD		10KVA	6,000.00	12,000.00
1.8.4	**Boiler and Turbine Electrical Parts**									**4,200,960.00**
1.8.4.1	MVD cabinet	8538	China/Thailand/Japan/Switzerland/others		5	USD		33KV	58,300.00	291,500.00
1.8.4.2	transformer	504	China/Thailand/Japan/Switzerland/others		1	USD		4000KVA	233,000.00	233,000.00
1.8.4.3	MVD Cabinet	8538	China/Thailand/Japan/Switzerland/others		1	USD		11kv	600,000.00	600,000.00
1.8.4.4	Gen-set	8501	China/Thailand/Japan/Switzerland/others		1	USD			300,000.00	300,000.00
1.8.4.5	Bus bar duct	7308	China/Thailand/Japan/Switzerland/others		10	USD		11KV	5,100.00	51,000.00
1.8.4.6	variable frequency drive	8538	China/Thailand/Japan/Switzerland/others		1	USD		11kv	304,350.00	304,350.00
1.8.4.7	soft starter	8538	China/Thailand/Japan/Switzerland/others		5	USD		11kv	29,200.00	146,000.00
1.8.4.8	Turbine & boiler transformer	504	China/Thailand/Japan/Switzerland/others		2	USD		11kv	36,400.00	72,800.00
1.8.4.10	MCC cabinet	8538	China/Thailand/Japan/Switzerland/others		1	USD			700,500.00	700,500.00
1.8.4.11	Bus bar duct	7308	China/Thailand/Japan/Switzerland/others		40	USD			1,460.00	58,400.00
1.8.4.12	Power distribution box	8538	China/Thailand/Japan/Switzerland/others		40	USD			2,200.00	88,000.00
1.8.4.13	Local pushbutton station	8538	China/Thailand/Japan/Switzerland/others		50	USD			728.00	36,400.00
1.8.4.14	DC system	8538	China/Thailand/Japan/Switzerland/others		1	USD			102,000.00	102,000.00
1.8.4.15	UPS	8504.40.11.00	China/Thailand/Japan/Switzerland/others		1	USD			102,000.00	102,000.00
1.8.4.16	Lighting system	8539	China/Thailand/Japan/Switzerland/others		1	USD			131,100.00	131,100.00
1.8.4.17	Electric pannel	8538	China/Thailand/Japan/Switzerland/others		3	USD			14,600.00	43,800.00
1.8.4.18	Electric pannel	8538	China/Thailand/Japan/Switzerland/others		2	USD			21,900.00	43,800.00

1.8.4.19	Electric pannel	8538	China/Thailand/Japan/Switzerland/others		2	USD			14,600.00	29,200.00
1.8.4.20	Cable tray	308.90.99.(	China/Thailand/Japan/Switzerland/others		1	USD			65,500.00	65,500.00
1.8.4.21	Power cable	8544	China/Thailand/Japan/Switzerland/others		1	USD			292,000.00	292,000.00
1.8.4.22	Instrument cable	8544	China/Thailand/Japan/Switzerland/others		1	USD			72,800.00	72,800.00
1.8.4.24	10HP air conditioning	8415	China/Thailand/Japan/Switzerland/others		10	USD			2,200.00	22,000.00
1.8.4.25	5HP air conditioning	8415	China/Thailand/Japan/Switzerland/others		15	USD			1,460.00	21,900.00
1.8.4.26	2HP air conditioning	8415	China/Thailand/Japan/Switzerland/others		4	USD			750.00	3,000.00
1.8.4.27	Axial Fan	8538	China/Thailand/Japan/Switzerland/others		18	USD			720.00	12,960.00
1.8.4.28	Ventilator	8538	China/Thailand/Japan/Switzerland/others		1	USD			7,300.00	7,300.00
1.8.4.29	Fire valve	8538	China/Thailand/Japan/Switzerland/others		4	USD			650.00	2,600.00
1.8.4.30	Dust collection filter	421.99.98.(	China/Thailand/Japan/Switzerland/others		6	USD		DMC96A	10,200.00	61,200.00
1.8.4.31	Dust collection filter	8421.99.98.00	China/Thailand/Japan/Switzerland/others		1	USD		L=127600m^3/h TGB2	182,000.00	182,000.00
1.8.5	**Wastewater Treatment System**									**295,000.00**
1.8.5.1	low-voltage switch panel	8538.10.19.00	China/Thailand/Japan/Switzerland/others	set	6	USD			22,500.00	135,000.00
1.8.5.1	**G.S Cable tray**		China/Thailand/Japan/Switzerland/others	lot	1	USD			15,000.00	15,000.00
1.8.5.1	**Cable auxiliary materials**		China/Thailand/Japan/Switzerland/others	lot	1	USD			75,000.00	75,000.00
1.8.5.1	PLC system	8537.10.12.00	China/Thailand/Japan/Switzerland/others	set	1	USD			70,000.00	70,000.00
	Total									**11,497,778.18**

1.9 BREAKDOWN (ANCILLARY EQUIPMENT)

S/N	ITEM	HS Code	COUNTRY OF ORIGIN	QUANTITY	CURRENCY	SPECIFICATION	MODEL	UNIT PRICE (USD)	TOTAL (USD)
Preparation Workshop									
1	FORKLIFT	8427.20.00.00	CHIAN/OTHERS	6	USD			30,000.00	180,000.00
2	WEIGHTBRIDGE	8423.89.10.00	ENGLAND/OTHERS	2	USD			60,000.00	120,000.00
3	BUS 50 SEATER	8702.10.41.00	CHIAN/OTHERS	2	USD			70,000.00	140,000.00
4	AUTO SAMPLER	8438.80.91.00	CHIAN/OTHERS	1	USD			100,000.00	100,000.00
5	500KVA DIESEL GENSET	8502	CHIAN/OTHERS	1	USD			50,000.00	50,000.00
6	DUMP TRUCK	8704	CHIAN/OTHERS	1	USD			30,000.00	30,000.00
7	BELT CONEVEYER	8428.20.10.00	CHIAN/OTHERS	20	USD			10,000.00	200,000.00
8	AUTO CONTAINER LOADING	8438	CHIAN/OTHERS	1	USD			40,000.00	40,000.00
TOTAL ANCILLARY EQUIPMENT					**USD**				**860,000.00**

Annex V

Projected Raw Materials Requirement

Annex V - Projected Raw Materials Requirement

No.	Products	Local/Import	Unit	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
1	Paddy Emata (long grain)	Local	MT	216,000	243,000	252,000	288,000	306,000	324,000	324,000	324,000	324,000	324,000
2	Paddy Pawsan (short grain)	Local	MT	99,000	108,000	117,000	126,000	135,000	144,000	144,000	162,000	162,000	162,000
	Total		**MT**	**315,000**	**351,000**	**369,000**	**414,000**	**441,000**	**468,000**	**468,000**	**486,000**	**486,000**	**486,000**

No.	Products	Local	Unit Price	Currency	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
1	Paddy	Local	usd/mt	MMK	248,692	248,692	248,692	248,692	248,692	248,692	248,692	248,692	248,692	248,692

No.	Products	Local	Amount	Currency	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
1	Paddy	Local	usd/ total mt	MMK	78,337,980,000	87,290,892,000	91,767,348,000	102,958,488,000	109,673,172,000	116,387,856,000	116,387,856,000	120,864,312,000	120,864,312,000	120,864,312,000

Annex VI

Projected Utility Consumption - Fuel, Electricity and Water

Annex - VI Projected Utility Consumption of Fuel, Electricity and Water

Quantity	UOM	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Electricity	KWH	73,930,000	73,930,000	73,930,000	73,930,000	73,930,000	73,930,000	73,930,000	73,930,000	73,930,000	73,930,000
Water	M3	770,000	770,000	770,000	770,000	770,000	770,000	770,000	770,000	770,000	770,000
Fuel - Diesel	Litres	290,000	290,000	290,000	290,000	290,000	290,000	290,000	290,000	290,000	290,000

Unit Price	Currency	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Electricity	USD	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Water	USD	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Fuel - Diesel	USD	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60

Amount in USD	Currency	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Electricity	USD	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0
Water	USD	847,000.00	847,000.00	847,000.00	847,000.00	847,000.00	847,000.00	847,000.00	847,000.00	847,000.00	847,000.00
Fuel - Diesel	USD	174,000.00	174,000.00	174,000.00	174,000.00	174,000.00	174,000.00	174,000.00	174,000.00	174,000.00	174,000.00

**Fuel - Diesel is mainly used for backup generator for electricity and boiler booting.

Note:

Electricity source from "National power grid" & "Production of electrical power through the burning of rice husk for Company's own use".

Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20	Year 21	Year 22	Year 23
73,930,000	73,930,000	73,930,000	73,930,000	73,930,000	73,930,000	73,930,000	73,930,000	73,930,000	73,930,000	73,930,000	73,930,000	73,930,000
770,000	770,000	770,000	770,000	770,000	770,000	770,000	770,000	770,000	770,000	770,000	770,000	770,000
290,000	290,000	290,000	290,000	290,000	290,000	290,000	290,000	290,000	290,000	290,000	290,000	290,000

Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20	Year 21	Year 22	Year 23
0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60

Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20	Year 21	Year 22	Year 23
7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0
847,000.00	847,000.00	847,000.00	847,000.00	847,000.00	847,000.00	847,000.00	847,000.00	847,000.00	847,000.00	847,000.00	847,000.00	847,000.00
174,000.00	174,000.00	174,000.00	174,000.00	174,000.00	174,000.00	174,000.00	174,000.00	174,000.00	174,000.00	174,000.00	174,000.00	174,000.00

Year 24	Year 25	Year 26	Year 27	Year 28	Year 29	Year 30	Year 31	Year 32	Year 33	Year 34	Year 35	Year 36
73,930,000	73,930,000	73,930,000	73,930,000	73,930,000	73,930,000	73,930,000	73,930,000	73,930,000	73,930,000	73,930,000	73,930,000	73,930,000
770,000	770,000	770,000	770,000	770,000	770,000	770,000	770,000	770,000	770,000	770,000	770,000	770,000
290,000	290,000	290,000	290,000	290,000	290,000	290,000	290,000	290,000	290,000	290,000	290,000	290,000

Year 24	Year 25	Year 26	Year 27	Year 28	Year 29	Year 30	Year 31	Year 32	Year 33	Year 34	Year 35	Year 36
0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60

Year 24	Year 25	Year 26	Year 27	Year 28	Year 29	Year 30	Year 31	Year 32	Year 33	Year 34	Year 35	Year 36
7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0
847,000.00	847,000.00	847,000.00	847,000.00	847,000.00	847,000.00	847,000.00	847,000.00	847,000.00	847,000.00	847,000.00	847,000.00	847,000.00
[illegible]74,000.00	174,000.00	174,000.00	174,000.00	174,000.00	174,000.00	174,000.00	174,000.00	174,000.00	174,000.00	174,000.00	174,000.00	174,000.00

Year 37	Year 38	Year 39	Year 40	Year 41	Year 42	Year 43	Year 44	Year 45	Year 46	Year 47	Year 48	Year 49
73,930,000	73,930,000	73,930,000	73,930,000	73,930,000	73,930,000	73,930,000	73,930,000	73,930,000	73,930,000	73,930,000	73,930,000	73,930,000
770,000	770,000	770,000	770,000	770,000	770,000	770,000	770,000	770,000	770,000	770,000	770,000	770,000
290,000	290,000	290,000	290,000	290,000	290,000	290,000	290,000	290,000	290,000	290,000	290,000	290,000

Year 37	Year 38	Year 39	Year 40	Year 41	Year 42	Year 43	Year 44	Year 45	Year 46	Year 47	Year 48	Year 49
0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60

Year 37	Year 38	Year 39	Year 40	Year 41	Year 42	Year 43	Year 44	Year 45	Year 46	Year 47	Year 48	Year 49
7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0	7,393,000.0
847,000.00	847,000.00	847,000.00	847,000.00	847,000.00	847,000.00	847,000.00	847,000.00	847,000.00	847,000.00	847,000.00	847,000.00	847,000.00
174,000.00	174,000.00	174,000.00	174,000.00	174,000.00	174,000.00	174,000.00	174,000.00	174,000.00	174,000.00	174,000.00	174,000.00	174,000.00

Year 50
73,930,000
770,000
290,000

Year 50
0.10
1.10
0.60

Year 50
7,393,000.0
847,000.00
174,000.00

Annex VII

Annual Sales Statistics - Quantity and Value

Wilmar Myanmar Riceland Limited

Annex VII. Annual Sales Statistics

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Local sales (Mt)										
Fragrant Rice (Paw San)	65,150	65,150	70,580	76,009	81,438	86,867	86,867	97,726	97,726	97,726
White Rice (Nga Sein / Emata)	30,148	35,173	35,173	40,198	35,173	35,173	35,173	35,173	35,173	35,173
Sub-Total	**95,299**	**100,323**	**105,752**	**116,206**	**116,611**	**122,040**	**122,040**	**132,898**	**132,898**	**132,898**
Export sales (Mt)										
Parboiled Rice	65,265	70,703	76,142	87,020	87,020	97,897	97,897	97,897	97,897	97,897
White Rice (Nga Sein / Emata)	30,148	31,500	31,500	36,000	40,500	40,500	40,500	40,500	40,500	40,500
Sub-Total	**95,413**	**102,203**	**107,642**	**123,020**	**127,520**	**138,397**	**138,397**	**138,397**	**138,397**	**138,397**
Local + export sales (Mt)										
Parboiled Rice	65,265	70,703	76,142	87,020	87,020	97,897	97,897	97,897	97,897	97,897
Fragrant Rice (Paw San)	65,150	65,150	70,580	76,009	81,438	86,867	86,867	97,726	97,726	97,726
White Rice (Nga Sein / Emata)	60,296	66,673	66,673	76,198	75,673	75,673	75,673	75,673	75,673	75,673
TOTAL	**190,711**	**202,527**	**213,395**	**239,226**	**244,130**	**260,437**	**260,437**	**271,295**	**271,295**	**271,295**

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Local Sales By - Products (MT)										
Broken	19,440	21,330	22,230	25,020	24,030	25,380	25,380	26,280	26,280	26,280
Bran	32,400	35,100	36,900	41,400	40,500	43,200	43,200	45,000	45,000	41,250
Husk	72,468	78,408	82,467	92,466	90,585	96,624	96,624	100,782	100,782	100,782
Rice Bran Oil (RBO)	15,776	15,776	15,776	15,776	15,776	15,776	15,776	15,776	15,776	15,776

Sales Amount	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Local Sales (MMK)										
Fragrant Rice (Paw San)	52,771,801,395	52,771,801,395	57,169,451,512	61,567,101,628	65,964,751,744	70,362,401,860	70,362,401,860	79,157,702,093	79,157,702,093	79,157,702,093
White Rice (Nga Sein / Emata)	15,059,025,900	17,568,863,550	17,568,863,550	20,078,701,200	17,568,863,550	17,568,863,550	17,568,863,550	17,568,863,550	17,568,863,550	17,568,863,550
Sub-Total	67,830,827,295	70,340,664,945	74,738,315,062	81,645,802,828	83,533,615,294	87,931,265,410	87,931,265,410	48,038,342,413	48,038,342,413	48,038,342,413
Export sales (US$)										
Parboiled Rice	27,411,153	29,695,416	31,979,679	36,548,205	36,548,205	41,116,730	41,116,730	31,059,293	31,059,293	31,059,293
White Rice (Nga Sein / Emata)	11,154,834	11,655,000	11,655,000	13,320,000	14,985,000	14,985,000	14,985,000	7,223,040	7,223,040	7,223,040
Sub-Total	38,565,987	41,350,416	43,634,679	49,868,205	51,533,205	56,101,730	56,101,730	38,282,333	38,282,333	38,282,333
By - Products (MMK)										
Broken	7,137,463,929	7,812,480,259	8,155,520,920	9,173,577,911	8,841,602,241	9,356,163,233	9,356,163,233	9,709,719,900	9,699,203,893	9,699,203,893
Bran	6,752,744,600	7,315,473,316	7,690,625,794	8,628,506,989	8,440,930,750	9,003,659,466	9,003,659,466	9,378,811,944	9,378,811,944	8,597,244,282
Husk	1,657,463,787	1,793,321,474	1,886,157,560	2,114,851,334	2,071,829,733	2,209,951,715	2,209,951,715	2,305,052,097	2,305,052,097	2,305,052,097
Rice Bran Oil (RBO)	17,381,996,800	17,381,996,800	17,381,996,800	17,381,996,800	17,381,996,800	17,381,996,800	17,381,996,800	17,381,996,800	17,381,996,800	17,381,996,800
Sub-Total	32,929,669,115	34,303,271,850	35,114,301,074	37,298,933,034	36,736,359,524	37,951,771,214	37,951,771,214	38,775,580,741	38,765,064,734	37,983,497,072

Unit Price	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Local Rice (MMK/MT)										
Fragrant Rice (Paw San)	810,000	810,000	810,000	810,000	810,000	810,000	810,000	810,000	810,000	810,000
White Rice (Nga Sein / Emata)	499,500	499,500	499,500	499,500	499,500	499,500	499,500	499,500	499,500	499,500
Export Rice (US$/MT)										
Parboiled Rice	420	420	420	420	420	420	420	420	420	420
White Rice (Nga Sein / Emata)	370	370	370	370	370	370	370	370	370	370
By - Products (MMK/MT)										
Broken	367,200	367,200	367,200	367,200	367,200	367,200	367,200	367,200	367,200	367,200
Bran	207,900	207,900	207,900	207,900	207,900	207,900	207,900	207,900	207,900	207,900
Husk	22,950	22,950	22,950	22,950	22,950	22,950	22,950	22,950	22,950	22,950
Rice Bran Oil (RBO)	1,101,800	1,101,800	1,101,800	1,101,800	1,101,800	1,101,800	1,101,800	1,101,800	1,101,800	1,101,800

Annex VIII

List of Local and Expatriate Personnel

Manpower list for Rice Project

Item	Designation/Rank	Citizen	Foreign	Total
a	Senior management (Managers, senior officials)	-	5	5
b	Other management level (Except from senior management)	7	3	10
c	Professionals	5	6	11
d	Technicians	6	6	12
e	Advisors	5	6	11
f	Skilled Labour	34	0	34
g	Workers	133	0	133
Total		**190**	**26**	**216**

	Position	Recruited		Vacant		Total
		Citizen	Foreign	Citizen	Foreign	
	Management	-	-	-	1	1
Production	Senior management	-	-	-	1	1
	Other management level	-	-	2	1	3
	Professionals	-	-	3	3	6
	Technicians	-	-	3	3	6
	Advisors	-	-	2	3	5
	Skilled Labour	-	-	17	0	17
	Workers	-	-	68	-	68
	Grand Total					106
Storage&Transportation	Senior management	-	-	-	1	1
	Other management level	-	-	1	1	2
	Professionals	-	-	1	1	2
	Technicians	-	-	1	1	2
	Advisors	-	-	2	1	3
	Skilled Labour	-	-	9	0	9
	Workers	-	-	31	-	31
	Grand Total					50
QC&QA	Senior management	-	-	-	1	1
	Other management level	-	-	1	-	1
	Professionals	-	-	-	1	1
	Technicians	-	-	1	1	2
	Advisors	-	-	1	1	2
	Skilled Labour	-	-	2	-	2
	Workers	-	-	9	-	9
	Grand Total					18
Trading	Senior management	-	-	-	1	1
	Other management level	1	-	3	1	4
	Professionals	-	-	1	1	2
	Technicians	-	-	1	1	2
	Advisors	-	-	-	1	1
	Skilled Labour	4	-	2	-	6
	Workers	-	-	25	-	25
	Grand Total					41

Recruited	Vacant	Total
5	**211**	**216**

Wilmar Myanmar Riceland Limited

Annex VIII. List of Expatriate Personnel

No.	Position	Foreign	Average Salary per Head (USD)	Salary (Monthly) (USD)	Salary (Yearly) Year 1 (USD)	Salary (Yearly) Year 2 (USD)	Salary (Yearly) Year 3 (USD)	Salary (Yearly) Year 4 (USD)	Salary (Yearly) Year 5 (USD)	Salary (Yearly) Year 6 (USD)	Salary (Yearly) Year 7 (USD)	Salary (Yearly) Year 8 (USD)	Salary (Yearly) Year 9 (USD)	Salary (Yearly) Year 10 (USD)
1	Senior Management	5	3,040	15,200	183,000	198,000	214,000	232,000	251,000	272,000	294,000	318,000	344,000	372,000
2	Other Management Level	3	1,800	5,400	65,000	71,000	77,000	84,000	91,000	99,000	107,000	116,000	126,000	137,000
3	Professionals	6	1,500	9,000	108,000	117,000	127,000	138,000	150,000	162,000	175,000	189,000	205,000	222,000
4	Technicians	6	1,200	7,200	87,000	94,000	102,000	111,000	120,000	130,000	141,000	153,000	166,000	180,000
5	Advisors	6	1,200	7,200	87,000	94,000	102,000	111,000	120,000	130,000	141,000	153,000	166,000	180,000
6	Skilled Labor	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Workers	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	**26**		**44,000**	**530,000**	**574,000**	**622,000**	**676,000**	**732,000**	**793,000**	**858,000**	**929,000**	**1,007,000**	**1,091,000**

Wilmar Myanmar Riceland Limited
Annex VIII. List of Local Personnel

No.	Position	Citizen	Average Salary per Head (MMK)	Salary (Monthly) (MMK)	Salary (Yearly) Year 1 (MMK)	Salary (Yearly) Year 2 (MMK)	Salary (Yearly) Year 3 (MMK)	Salary (Yearly) Year 4 (MMK)	Salary (Yearly) Year 5 (MMK)	Salary (Yearly) Year 6 (MMK)	Salary (Yearly) Year 7 (MMK)	Salary (Yearly) Year 8 (MMK)	Salary (Yearly) Year 9 (MMK)	Salary (Yearly) Year 10 (MMK)
1	Senior Management	-	-	-	-	-	-	-	-	-	-	-	-	-
2	Other Management Level	7	1,490,000	10,370,000	124,440,000	134,396,000	145,148,000	156,760,000	169,301,000	182,846,000	197,474,000	213,272,000	230,334,000	248,761,000
3	Professionals	5	970,000	4,820,000	57,840,000	62,468,000	67,466,000	72,864,000	78,694,000	84,990,000	91,790,000	99,134,000	107,065,000	115,631,000
4	Technicians	6	880,000	5,260,000	63,120,000	68,170,000	73,624,000	79,514,000	85,876,000	92,747,000	100,167,000	108,181,000	116,836,000	126,183,000
5	Advisors	5	840,000	4,200,000	50,400,000	54,432,000	58,787,000	63,490,000	68,570,000	74,056,000	79,981,000	86,380,000	93,291,000	100,755,000
6	Skilled Labor	34	620,000	20,814,000	249,768,000	269,750,000	291,330,000	314,637,000	339,808,000	366,993,000	396,353,000	428,062,000	462,307,000	499,292,000
7	Workers	133	370,000	48,730,000	584,760,000	631,541,000	682,065,000	736,631,000	795,562,000	859,207,000	927,944,000	1,002,180,000	1,082,355,000	1,168,944,000
	Total	190		94,194,000	1,130,328,000	1,220,757,000	1,318,420,000	1,423,896,000	1,537,811,000	1,660,839,000	1,793,709,000	1,937,209,000	2,092,188,000	2,259,566,000

Annex IX

Support Letter from bank in respect of Wilmar International Limited, an ultimate parent company of WIH, Support Letter from bank in respect of Riceland and Bank Statements of Staple Food

Private & Confidential

28 August 2018

To: The Chairman
Myanmar Investment Commission
No. 1, Thitsar Road, Yankin Township,
Yangon Region, The Republic of the Union of Myanmar

Dear Sirs

Re: Wilmar Myanmar Riceland Limited

We are the banker of Wilmar International Limited ("**Wilmar**") and we have been informed by Wilmar that:

1. Wilmar Investment Holdings Pte. Ltd. ("**WIH**") in which Wilmar holds a direct 100% interest, will be incorporating Wilmar Myanmar Riceland Limited ("**WMRL**") as a 40% (Forty Per Cent.) associated company to make an investment valued at about US$106 million in the Republic of the Union of Myanmar in accordance with the Republic of the Union of Myanmar Investment Law (the "**Project**"). It is currently intended that WMRL will be incorporated under the laws of the Republic of the Union of Myanmar with a capital brought in of US$31.8 million, and

2. in conjunction with this aforementioned investment, we would like to confirm that Wilmar is our business partner of many years and based on information available to us as at the date of this letter we would expect that Wilmar as the ultimate parent company of WIH will have the financial resources and means to contribute to the capital of WMRL.

In issuing this letter, we have relied on the information above provided by Wilmar without independent verification and have assumed that all information made available to us in connection with the above investment is true, complete and accurate in all material respects.

This letter shall be treated as strictly confidential and is issued without responsibility or liability on our part. This letter is provided to you solely in connection with the Project and shall not be used for any other purpose or to be disclosed to any other person. We accept no liability or responsibility whatsoever with respect to the use of this letter or its contents.

We or our officers shall not in any circumstances be liable (whether in contract, tort or otherwise) to any person (including, without limitation, you or Wilmar or your respective affiliates or advisers) for or in connection with the delivery of this letter or the use of or reliance on this letter.

DBS Bank Ltd
Institutional Banking Group
12 Marina Boulevard, Level 40
DBS Asia Central @
Marina Bay Financial Centre Tower 3
Singapore 018982

Tel : 65.6878 8888
Fax : 65.6225 3975 / 65.6878 6177
Telex : RS 24455
SWIFT Dest : DBSSSGSG
www.dbs.com

A person who is not a party to this letter shall have no right to enforce or enjoy the benefit of any term of this letter under the Contracts (Rights of Third Parties) Act (Chapter 53B). Notwithstanding any term of this letter, the consent of any person who is not a party to this letter is not required to rescind or vary this letter at any time.

This letter shall be governed by and construed in accordance with the laws of Singapore.

Yours faithfully
For and on behalf of
DBS Bank Ltd

Angie Teh
Vice President
Institutional Banking Group

DBS Bank Ltd
Institutional Banking Group
12 Marina Boulevard, Level 40
DBS Asia Central @
Marina Bay Financial Centre Tower 3
Singapore 018982

Tel : 65.6878 8888
Fax : 65.6225 3975 /
65.6878 6177
Telex : RS 24455
SWIFT Dest : DBSSSGSG
www.dbs.com

KASIKORNTHAI

ธนาคารกสิกรไทย
开泰银行 KASIKORNBANK

NO. CT. 6122346 / 2018

November 29, 2018

To: The Chairman

Myanmar Investment Commission

No. 1, Thitsar Road, Yankin Township,

Yangon Region, The Republic of the Union of Myanmar

Dear Sirs

Re: Wilmar Myanmar Riceland Limited

We, KASIKORNBANK Public Company Limited, have been informed by Riceland International Limited ("Riceland") that (*i*) one of its shareholders, namely RLG Holding Limited, which holds 40% of the share capital of Riceland will be investing in Wilmar Myanmar Riceland Limited ("WMRL"), a company to be incorporated in the Republic of the Union of Myanmar in accordance with the Republic of the Union of Myanmar Investment Law (the "Project"), and (*ii*) WMRL will be incorporated with an initial capital brought in of US$31.8 million (United States Dollar Thirty One Million Eight Hundred Thousand Only). RLG Holding Limited will be a 40% shareholder of WMRL and WMRL will invest about US$106 million for the Project.

For the purpose of the Project, Riceland has requested us to issue this letter to you, therefore, we hereby issue this letter with its substance that (i) Riceland has been our current client for more than 13 years, and (ii) based on Riceland's information available to us as at the date of this letter , Riceland is currently in good standing status with its deposit account in the range of *5,000,000 - 20,000,000 Baht* and the financial accommodation accommodated by us has been in the range of *400,000,000 - 1,150,000,000 Baht, and (iii) Riceland have had satisfactory standing status with us since 2005.*

This letter has been issued by us according to the request of Riceland and the information about the Project has been provided to us by Riceland which we have no duty to prove any truth thereof. The substance of this letter which related to Riceland as described hereinabove is based on the fact and information available to us just as of the issuance date hereof. This letter shall be treated as strictly confidential and is issued without responsibility or liability on our part. This letter is provided to you solely in connection with the Project and shall not be used for any other purpose or to be disclosed to any other person.

We accept no liability or responsibility whatsoever with respect to the use of this letter or its contents.

We or our officers shall not in any circumstances be liable (whether in contract, tort or otherwise) to any person (including, without limitation, you or WMRL or your respective affiliates or advisers) for or in connection with the issuance of this letter or the use of or reliance on this letter.

This letter is subject to the laws of Thailand.

Yours faithfully,

KASIKORNBANK Public Company Limited

Ti. Sa.

(Tipakorn Saiphatana)

First Senior Vice President

MYANMA FOREIGN TRADE BANK

Head Office

BALANCE CERTIFICATE

Date:06/07/2018

To,

1DA0405556

STAPLE FOOD SUPPLY CO; LTD

Dear Sir,

We hereby certify that the balance of your Foreign Currency Account No. **1DA0405556** with us as at **06/07/2018** was **US Dollar 100.00 (US Dollar one hundred only.)**

Yours Faithfully,

Manager

Accounts Department

MYANMA FOREIGN TRADE BANK

BANK STATEMENT

Account No: 1D*0405556
Name of Account: STAPLE FOOD SUPPLY CO. LTD
Address: NO.36, THEIN PHYU ROAD PAZUNDAUNG T/S, YGN.
Bank Statement for the month of : From 01/09/2016 To 06/07/2018

Print Date & Time : 06/07/2018-10:37 AM

Date	Particular	Chq: No	C/T/L	CUR	Debit	Credit	Balance
	BALANCE FORWARD			USD			0.00
07/09/2016	NEW A/C		CSH	USD		100.00	100.00
30/09/2016	Auto Exchange Adj Vr		TRF	MMK			100.00
31/03/2017	Auto Exchange Adj Vr		TRF	MMK			100.00
29/09/2017	Auto Exchange Adj Vr		TRF	MMK			100.00
30/03/2018	Auto Exchange Adj Vr		TRF	MMK			100.00
	Grand Total				0.00	100.00	

Unless the Bank is immediately notified of any discrepancy found in the statement of account, it will be taken that the account has been found to be correct.

TRANSACTION CODE

CSH = CASH
TRF = TRANSFER
CLG = CLEARING

Number Of Debit =0
Number Of Credit =1

MANAGER

Asst: Manager
Current Account Section
Myanma Foreign Trade Bank
ASST: MANAGER

PrintedBy : HNIN NWE NI KHIN

Annex X

Certificate of Incorporation and List of Directors of WMRL

ကုမ္ပဏီမှတ်ပုံတင်လက်မှတ်

Certificate of Incorporation

WILMAR MYANMAR RICELAND LIMITED
Company Registration No. 110433190

မြန်မာနိုင်ငံကုမ္ပဏီများဥပဒေ၂၀၁၇ အရ
WILMAR MYANMAR RICELAND LIMITED
အား ၂၀၁၈ ခုနှစ် နိုဝင်ဘာလ ၃၀ ရက်နေ့တွင်
အစုရှယ်ယာအားဖြင့် တာဝန်ကန့်သတ်ထား သည့် အများနှင့်မသက်ဆိုင်သောကုမ္ပဏီ
အဖြစ် ဖွဲ့စည်းမှတ်ပုံတင်ခွင့်ပြုလိုက်သည်။

This is to certify that
WILMAR MYANMAR RICELAND LIMITED
was incorporated under the Myanmar Companies Law 2017 on 30 November 2018 as a Private Company Limited by Shares.

ကုမ္ပဏီမှတ်ပုံတင်အရာရှိ
Registrar of Companies
ရင်းနှီးမြှုပ်နှံမှုနှင့်ကုမ္ပဏီများညွှန်ကြားမှုဦးစီးဌာန
Directorate of Investment and Company Administration

Company Name (English)	Company Name (Myanmar)	Registration Number	Registration Date
WILMAR MYANMAR RICELAND LIMITED		110433190	30/11/2018
Company Type	**Status**	**Foreign Company**	**Small Company**
Private Company Limited by Shares	Registered	Yes	-

FILING HISTORY | ADDRESSES | **OFFICERS** | SHAREHOLDINGS | COMPANY AUTHORITY | MEMBERS | DOCUMENTS

Name	Type	Nationality	N.R.C. (For Myanmar Citizens)	Effective Date
U MYINT MAW	Director	Myanmar	12/PAZATA(N)023691	30/11/2018
MR. SUN DEHAI	Director	China	EA5020349	30/11/2018
MDM. ROSARIN SRIPRASERT	Director	Thailand	AA9164777	30/11/2018
MR. VICHAI SRIPRASERT	Director	Thailand	AA7036761	30/11/2018
MR. KUOK KHONG HONG (KUOK KHOON HONG)	Director	Singapore	E6111951C	30/11/2018

THIS PASSPORT IS VALID FOR ALL COUNTRIES
EXCEPT THE FOLLOWING:

PASSPORT REPUBLIC OF SINGAPORE



Type	Country Code	Passport No
PA	SGP	E6111951C

Name
KUOK KHONG HONG
(KUOK KHOON HONG)

Sex	Nationality
M	SINGAPORE CITIZEN

Date of birth	Place of birth
30 APR 1949	MALAYSIA
Date of issue	**Date of expiry**
20 JUN 2016	20 MAR 2022
Modifications	**Authority**
SEE PAGE 2	MINISTRY OF HOME AFFAIRS

National ID No
S2507689C



PASGPKUOK<<KHONG<HONG<<<<<<<<<<<<<<<<<<<<<<<<<<

E6111951C6SGP4904302M2203207S2507689C<<<<<98

中华人民共和国外交部请各国军政机关对持照人予以通行的便利和必要的协助。

The Ministry of Foreign Affairs of the People's Republic of China requests all civil and military authorities of foreign countries to allow the bearer of this passport to pass freely and afford assistance in case of need.

中华人民共和国 PEOPLE'S REPUBLIC OF CHINA

护照
PASSPORT

类型/Type
P

国家码/Country Code
CHN

护照号码/Passport No.
EA5020349



姓名/Name
孙德海
SUN, DEHAI



性别/Sex
男/M

国籍/Nationality
中国/CHINESE

出生日期/Date of birth
20 MAY 1976

出生地点/Place of birth
黑龙江/HEILONGJIANG

签发日期/Date of issue
28 8月/AUG 2017

签发地点/Place of issue
仰光
YANGON

有效期至/Date of expiry
27 8月/AUG 2027

签发机关/Authority
中国驻缅甸大使馆
EMBASSY OF P.R.CHINA
IN MYANMAR

持照人签名/Bearer's signature
孙德海

1060027913

POCHNSUN<<DEHAI<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

EA50203491CHN7605208M2708274MLOPLFMCLKKDA954

备注 OBSERVATIONS

①本护照根据中华人民共和国第G55016533号护照换发。

This passport is issued to replace the passport No. G55016533 of the PRC.

2017年08月28日于仰光
28 AUG 2017 YANGON

EA5020349

备注 OBSERVATIONS

3

หนังสือเดินทางเล่มนี้ มี ๖๖ หน้า
This passport contains 66 pages

ชำระค่าธรรมเนียมแล้ว
FEE PAID

Passport No.
AA7036761

รายการบันทึก
ENDORSEMENTS

Endorsement No. 18906/B/59

The holder has previously travelled on Passport No. B 663115 issued by Ministry of Foreign Affairs at Bangkok on 11 JUN 2012 which has been cancelled and returned to the holder, ~~the visas duly affixed therein remain valid.~~

Director of Passport Division

Done at BANGKOK on 25 AUG 2016

Thailand

PASSPORT
หนังสือเดินทาง

Type / รหัส: P
Country Code / ประเทศ: THA
Passport No. / หนังสือเดินทางเลขที่: AA7036761

Surname / นามสกุล: SRIPRASERT

Title / Name / คำนำหน้าชื่อ / ชื่อ: MR. VICHAI

Name in Thai / ชื่อภาษาไทย: นาย วิชัย ศรีประเสริฐ



Nationality / สัญชาติ: THAI
Date of birth / วันเกิด: 31 JAN 1943
Identification No. / เลขประจำตัวประชาชน: 3100400334481

Sex / เพศ: M
Height / ส่วนสูง: 1.84
Place of birth / สถานที่เกิด: PHRA NAKHON SI AYUTTHAYA

Date of issue / วันที่ออก: 25 AUG 2016
Issuing Authority / ออกให้โดย: MINISTRY OF FOREIGN AFFAIRS

Date of expiry / วันที่หมดอายุ: 24 AUG 2021
Holder's Signature / ลายมือชื่อผู้ถือหนังสือเดินทาง: วิชัย

2

P<THASRIPRASERT<<VICHAI<<<<<<<<<<<<<<<<<<<<<<<
AA70367610THA4301314M2108243310040033448 1<32

3

หนังสือเดินทางฉบับนี้ มี ๖๖ หน้า
This passport contains 66 pages

ชำระค่าธรรมเนียมแล้ว FEE PAID

Passport No.

AA9164777

วาจกรรบันทึก
ENDORSEMENTS

Endorsement No. 7811/B/60

The holder has previously travelled on Passport No. AA 3185575 issued by Ministry of Foreign Affairs at Bangkok on 08 MAY 2014 which has been cancelled and returned to the holder, the visas duly affixed therein remain valid.

Director of Passport Division

Done at BANGKOK on 22 NOV 2017

Thailand

PASSPORT
หนังสือเดินทาง



Type / ประเภท: P	Country Code / ประเทศ: THA	Passport No. / หนังสือเดินทางเลขที่: AA9164777
Surname / นามสกุล: SRIPRASERT		
Title / Name / คำนำหน้าชื่อ / ชื่อ: MRS. ROSARIN		
Name in Thai / ชื่อภาษาไทย: นาง รสริน ศรีประเสริฐ		
Nationality / สัญชาติ: THAI	Date of birth / วันเกิด: 05 AUG 1948	Identification No. / เลขประจำตัวประชาชน: 5100400022401
Sex / เพศ: F	Height / ส่วนสูง: 1.53	Place of birth / สถานที่เกิด: CHINA
Date of Issue / วันที่ออก: 20 NOV 2017		Issuing Authority / ออกให้โดย: MINISTRY OF FOREIGN AFFAIRS
Date of expiry / วันที่หมดอายุ: 19 NOV 2022		Holder's Signature / ลายมือชื่อผู้ถือหนังสือเดินทาง

2

P<THASRIPRASERT<<ROSARIN<<<<<<<<<<<<<<<<<<<<

AA91647775THA4808053F2211190510040002240l<52

နိုင်ငံသားစိစစ်ရေးကတ်ပြား



အမှတ် ၁၃/ ပဇက (နိုင်) [illegible]

ရက်စွဲ ၂၄-၈-၂၀၀၁

အမည် ဦး [illegible]

အဘအမည် [illegible]

မွေးသက္ကရာဇ် [illegible]

လူမျိုး/ဘာသာ [illegible]

အရပ် ၅'၆" သွေးအုပ်စု [illegible]

ထင်ရှားသည့်အမှတ်အသား [illegible]

ထုတ်ပေးသူလက်မှတ်

အမည်

ရာထူး

KYN. [illegible]

အမှတ်စဉ် Q421853

သက်ဆိုင်ရာကတ်ပြားအမှတ် [illegible]



အလုပ်အကိုင် [illegible]

နေရပ်လိပ်စာ [illegible]

ထိုးမြဲလက်မှတ်

၁။ ဤကတ်ပြားကို အမြဲဆောင်ထားရမည်။

၂။ နေရပ်လိပ်စာ ပြောင်းသည့်အခါ [illegible]

၃။ ဤလက်မှတ်ကို [illegible] လဲလှယ်ရမည်။ [illegible]

Annex XI

Land Rights Authorisation Application (Form 7-A)

ပုံစံ (၇ - က)

မြေအသုံးပြုခွင့်လျှောက်ထားလွှာ

သို့

ဥက္ကဋ္ဌ
မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်

စာအမှတ်၊

ရက်စွဲ၊ ၂၀ ခုနှစ်၊ လ ရက်

အကြောင်းအရာ။ **ရင်းနှီးမြှုပ်နှံမှုလုပ်ငန်းဆောင်ရွက်ရန် မြေငှားရမ်းခွင့် သို့မဟုတ် မြေအသုံးပြုခွင့် လျှောက်ထားခြင်း။**

ကျွန်တော်/ကျွန်မသည် ရင်းနှီးမြှုပ်နှံမှုလုပ်ငန်း ဆောင်ရွက်ရန်အတွက် မြေငှားရမ်းခွင့် သို့မဟုတ် မြေအသုံးပြုခွင့်ကို မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှု နည်းဥပဒေ ၁၁၆ နှင့်အညီ အောက်ပါအချက်အလက်များကို ဖော်ပြ၍ လျှောက်ထားအပ်ပါသည်-

၁။ မြေ/ အဆောက်အအုံ၏ ပိုင်ရှင်နှင့်စပ်လျဉ်းသောအချက်အလက်များ

(က) ပိုင်ရှင်အမည်/အဖွဲ့အစည်း --

(ခ) ဧရိယာအကျယ်အဝန်း --

(ဂ) တည်နေရာ --

(ဃ) မူလမြေအသုံးပြုခွင့်ရရှိထားသောကာလ (မြေငှားဂရမ်သက်တမ်း) ----------------

(င) နှစ်ရှည်ငှားရမ်းခများကိုမတည်ရင်းနှီးငွေအဖြစ်ဖော်ပြခဲ့ခြင်းရှိ-မရှိ ----------------

(စ) ကနဦးငှားရမ်းသူကသဘောတူ/မတူ --

(ဆ) မြေအမျိုးအစား --

၂။ အငှားချထားသူ

(က) အမည်/ကုမ္ပဏီအမည်/ဌာန/အဖွဲ့အစည်း --

(ခ) နိုင်ငံသားစိစစ်ရေးကတ်အမှတ် --

(ဂ) နေရပ်လိပ်စာ --

Form (7- A)

Application form for Land Rights Authorization

To,

Chairman

Myanmar Investment Commission

Reference No.

Date.

Subject: **Application for Land Lease or land Rights Authorization to be invested**

I do hereby apply with the following information for permit to lease the land or permit to use the land according to the Myanmar Investment Rules 116: -

1. Particulars relating to Owner of land / building
   - (a) Name of owner/organization ---
   - (b) Area ---
   - (c) Location --
   - (d) Initial period permitted to use the land (Validity of land grant) ----------------
   - (e) Payment of long term lease as equity Yes ( ) No ( )
   - (f) Agreed by Original Lessor Yes ( ) No ( )
   - (g) Type of Land --

2. Lessor
   - (a) Name / Company's name/ Department/ organization -------------------------
   - (b) National Registration Card No --------------------------------------
   - (c) Address --

     ----

3. Lessee
   - (a) Name / Company's name /Department/ Organization------------------------------
   - (b) National Registration Card No /Passport No. --------------------------
   - (c) Citizenship ---
   - (d) Address --

     ----

4. Particulars of the proposed Land Lease
   - (a) Type of Investment --
   - (b) Investment Location(s) --

Form (7- A)

Application form for Land Rights Authorization

To,

Chairman
Myanmar Investment Commission

Reference No.
Date.

Subject: **Application for Land Lease or land Rights Authorization to be invested**

I do hereby apply with the following information for permit to lease the land or permit to use the land according to the Myanmar Investment Rule 116: -

1. Particulars relating to Owner of land / building

(a) Name of owner/organization

Myanma Port Authority

(b) Area

121,406 square meters or approximately 30 acres in equivalent

(c) Location

Thilawa Port Area plots no. 20 & 21 (of 74.1308 acres) and the parcel of land of 26 acres adjoining Thilawa Port Area plots No. 21 and 22, located at Yangon Region, Thilawa Port Area

(d) Initial period permitted to use the land (Validity of land grant)

Fifty (50) years commencing from the date on which the lease agreement between Myanma Port Authority and Wilmar Myanmar Port Terminals (Thilawa) Limited ("Head Lease") commences as specified under the Head Lease with an option to extend for two (2) further ten (10) year terms with the approval of the MIC. By way of clarification, Wilmar Myanmar Port Terminals (Thilawa) Limited was issued Permit No. 729/2014 by the Myanmar Investment Commission, and the Head Lease has been approved by the Myanmar Investment Commission. For purposes of the current investment, Wilmar Myanmar Port Terminals (Thilawa) Limited will sub-lease 121,406 square meters (approximately 30 acres) acres of the total 100.1308 acres of land obtained under the Head Lease to Wilmar Myanmar Riceland Limited for the same duration as the Head Lease.

(e) Payment of long term lease as equity

Not Applicable

(f) Agreed by Original Lessor

The Head Lease allows Wilmar Myanmar Port Terminals (Thilawa) Limited to sub-lease the land leased under the Head Lease. Please refer to Annex XIII: Land Lease Agreement between Myanma Port Authority and Wilmar Myanmar Port Terminals

(Thilawa) Limited dated 21 December 2014 and its Amendment Agreement dated 16 May 2018 for more detail.

(g) Type of Land

Port land leased by Wilmar Myanmar Port Terminals (Thilawa) Limited from Myanma Port Authority of 10 Pansodan Street, Kyauktada Township, Yangon 11182

2. Lessor

(a) Name / Company's name/ Department/ organization-

Myanma Port Authority

(b) National Registration Card No-

Not Applicable

(c) Address

10 ansodan Street, Kyauktada Township, Yangon 11182

3. Lessee

(a) Name / Company's name /Department/ Organization-

Wilmar Myanmar Port Terminals (Thilawa) Limited

(b) National Registration Card No /Passport No.

Certificate of Incorporation No. 797 FC / 2013-2014 dated 16th January 2014 Permit No. 729/2014 dated 18th December 2014 as amended on 27th February 2015

(c) Citizenship

Incorporated under the laws of The Republic of the Union of Myanmar

(d) Address

Plot No. 20 & 21, Thilawa Port Development Zone, Kyauktan Township, Yangon, Myanmar

Sub- Lessee

(a) Name / Company's name /Department/ Organization-

Wilmar Myanmar Riceland Limited

(b) National Registration Card No /Passport No.-

Certificate of Incorporation No. 110433190

(c) Citizenship

Incorporated under the laws of the Republic of the Union of Myanmar

(d) Address

Plot No. 20 & 21, Thilawa Port Development Zone, Kyauktan Township, Yangon, Myanmar

4. Particulars of the proposed Land Lease

(a) Type of Land

Port land leased by Wilmar Myanmar Port Terminals (Thilawa) Limited from Myanma Port Authority of 10 Pansodan Street, Kyauktada Township, Yangon 11182

(b) Investment Location (s)

Thilawa Port Area plots no. 20 & 21 (of 74.1308 acres) and the parcel of land of 26 acres adjoining Thilawa Port Area plots No. 21 and 22, located at Yangon Region, Thilawa Port Area

(c) Location (Ward, Township, State/ Region)

Kyauktan Township, *Yangon Region, Myanmar*

(d) Area of Land-

121,406 square meters or approximately 30 acres in equivalent

(e) Size and Number of Building (s)

15 buildings. Please see building size in paragraph 4(f) below.

(f) Value of Building

1) Silo 15600 m^2	**USD 4.70 million**
2) Intake tower 480 m^2	**USD 0.90 million**
3) White rice warehouse 3100 m^2	**USD 1.55 million**
4) Bran meal warehouse 1600 m^2	**USD 0.80 million**
5) Bran Warehouse 3200 m^2	**USD 1.20 million**
6) Husk silo 1000 m^2	**USD 0.50 million**
7) Effluent Treatment plant 3465 m^2	**USD 2.40 million**
8) Rice Bran crush plant 1344 m^2	**USD 4.00 million**
9) Rice bran solvent extraction plant 2750 m^2	**USD 5.00 million**
10) Water treatment plant 2100 m^2	**USD 3.00 million**
11) Parboiling line 2500 m^2	**USD 10.00 million**
12) White rice line 6000 m^2	**USD 13.60 million**
13) White rice bins 2250 m^2	**USD 2.30 million**

14) Power plant 10500 m^2 USD 30.00 million

15) Firefighting house 1000 m^2 USD 0.67 million

5. To enclose land ownership and Land Grant, ownership evidences (except Industrial Zone), Land map and Land Lease Agreement (Draft)

   Please refer to Annex XII: Build-Operate-Transfer Contract between Myanma Port Authority and Wilmar Myanmar Port Terminals (Thilawa) Limited dated 21 December 2014 and its Amendment Agreements dated 27 May 2016 and 16 May 2018; Annex XIII: Land Lease Agreement between Myanma Port Authority and Wilmar Myanmar Port Terminals (Thilawa) Limited dated 21 December 2014 and its Amendment Agreement dated 16 May 2018; and Annex XV: Maps / Drawings of the Project; Annex XIV: Sub-Lease Agreement (Draft).

6. Whether it is sub-leased from the following person in regarding to Land Lease or not-

   - Person who has the rights to use the land or Building of the Government from Government Department and Organization in accordance with the national laws.

     Myanma Port Authority

   - Authorized Person to get the Sub License or Sub Lease of the building or land owned by the Government in accordance with the permission of the Government department and Organization.

     Myanma Port Authority leased the land to Wilmar Myanmar Port Terminals (Thilawa) Limited under the Head Lease and Wilmar Myanmar Port Terminals (Thilawa) Limited has, under the Head Lease, the right to sub-lease the land leased under the Head Lease.

7. Land / Building lease rate (per square meter per year)

   (aa) Land

   USD 5.00 per square metre per year or approximately USD 0.4166 per square metre per month

   USD 20,235 per acre per year or approximately USD 1,686.25 per acre per month

   (bb) Building

   Not Applicable

8. Land Use Premium- (LUP) (if it is leased from the land belonged to Government Department/ Organization, the LUP shall be paid in cash by the lessee.)

   Rate per acre: ***Not Applicable***

9. Whether it is agreed by original land lessor or land tenant or not.

The Head Lease allows Wilmar Myanmar Port Terminals (Thilawa) Limited to sub-lease the land leased under the Head Lease with the consent of the MPA. Please refer to Annex XIII-Land Lease Agreement between Myanma Port Authority and Wilmar Myanmar Port Terminals (Thilawa) Limited dated 21 December 2014 and its Amendment Agreement dated 16 May 2018.

10. Proposed land or building use/ lease period

50 years commencing from the date of the physical handover of the relevant sub-leased land of 30 acres by Wilmar Myanmar Port Terminals (Thilawa) Limited to Wilmar Myanmar Riceland Limited as evidenced by a handover receipt, plus an option to extend for 2 further 10-year terms with the approval of the MIC. Provided that such total 70-year lease period does not extend beyond the lease period set out in the Land Lease Agreement dated 21st December 2014 and its Amendment Agreement dated 16 May 2018 between the Myanma Port Authority, as the head lessor of the sub-leased land, and Wilmar Myanmar Port Terminals (Thilawa) Limited, which is the lessee of the sub-leased land under the said Land Lease Agreement.

11. Whether it is the land located in the relevant business zone area such as Industrial Zone, Hotel Zone, Trade and etc. or not (To describe Zone)

Not Applicable

Signature---

Name of Investor: ***Wilmar Investment Holdings Pte. Ltd. represented by Mr. Sun Dehai***

Designation: ***Director***

Department/ Company (Seal/ Stamp)

ပုံစံ (၇-က)

မြေအသုံးပြုခွင့်လျှောက်ထားလွှာ

သို့

ဥက္ကဋ္ဌ
မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်

စာအမှတ်

ရက်စွဲ၊ ၂၀ ခုနှစ်၊ လ၊ ရက်

အကြောင်းအရာ။ ရင်းနှီးမြှုပ်နှံမှုလုပ်ငန်းဆောင်ရွက်ရန် မြေငှားရမ်းခွင့် သို့မဟုတ် မြေအသုံးပြုခွင့် လျှောက်ထားခြင်း။

ကျွန်တော်/ကျွန်မသည်ရင်းနှီးမြှုပ်နှံမှုလုပ်ငန်းဆောင်ရွက်ရန်အတွက်မြေငှားရမ်းခွင့်သို့မဟုတ် မြေအသုံးပြုခွင့်ကိုမြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုနည်းဥပဒေ ၁၁၆ နှင့်အညီအောက်ပါအချက်အလက်များကိုဖော်ပြ၍လျှောက်ထားအပ်ပါသည်။

၁။ မြေ/ အဆောက်အအုံ၏ပိုင်ရှင်နှင့်စပ်လျဉ်းသောအချက်အလက်များ

(က) ပိုင်ရှင်အမည်/ အဖွဲ့အစည်း

မြန်မာ့ဆိပ်ကမ်းအာဏာပိုင်

(ခ) ဧရိယာအကျယ်အဝန်း

၁၂၁,၄၀၆ စတုရန်းမီတာ သို့မဟုတ် ခန့်မှန်းခြေအားဖြင့် ဧက ၃၀

(ဂ) တည်နေရာ

သီလဝါဆိပ်ကမ်းဧရိယာ၊ ရန်ကုန်တိုင်းဒေသကြီး တွင်တည်ရှိသော သီလဝါဆိပ်ကမ်းဧရိယာမြေကွက်အမှတ် - ၂၀ နှင့် ၂၁ (မြေဧက ၇၄.၁၃၀၈) နှင့် သီလဝါဆိပ်ကမ်းဧရိယာမြေကွက်အမှတ် -၂၁ နှင့်၂၂တို့နှင့် ကပ်လျက် ၂၆ဧကရှိ မြေကွက်လပ်၊

(ဃ) မူလမြေအသုံးပြုခွင့်ရရှိထားသောကာလ (မြေငှားဂရမ်သက်တမ်း)

*မြန်မာ့ဆိပ်ကမ်းအာဏာပိုင် နှင့် **Wilmar Myanmar Port Terminals (Thilawa) Limited** အကြားချုပ်ဆိုထားသောမြေငှားစာချုပ် (မူလမြေငှားစာချုပ်) တွင် ဖော်ပြထားသော သတ်မှတ်ချက်များအရ မြေငှားသက်တမ်း စတင်သည့်နေ့မှ နှစ်ပေါင်း ၅၀ နှင့် မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်၏ခွင့်ပြုချက်ဖြင့်ထပ်မံသက်တမ်းတိုးမည့် ၁၀နှစ် နှစ်ကြိမ် သက်တမ်း။ ထပ်မံရှင်းလင်းလိုသည်မှာ **Wilmar Myanmar Port Terminals (Thilawa) Limited** သည်မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်မှခွင့်ပြုမိန့်အမှတ် ၇၂၉/၂၀၁၄ ရရှိထားပြီးမူလမြေငှားစာချုပ်အား မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်မှ ခွင့်ပြုထားပြီး ဖြစ်ပါသည်။ လက်ရှိရင်းနှီးမြှုပ်နှံမှုအတွက် **Wilmar Myanmar Port Terminals (Thilawa) Limited** သည် မူလမြေငှားစာချုပ်တွင် ၄င်းငှားရမ်းထားသော စုစုပေါင်းမြေဧက ၁၀၀.၁၃၀၈ မှ **Wilmar***

Myanmar Riceland Limited သို့ ၁၂၁,၄၀၆ စတုရန်းမီတာ (ခန့်မှန်းခြေ မြေဧက ၃၀) အားမူလ မြေငှားရမ်းမှုသက်တမ်း အတိုင်းထပ်ဆင့် ငှားရမ်းမည်ဖြစ်ပါသည်။

(င) နှစ်ရှည်ငှားရမ်းခများကိုမတည်ရင်းနှီးငွေအဖြစ်ဖော်ပြခဲ့ခြင်းရှိ - မရှိ

သက်ဆိုင်မှုမရှိပါ။

(စ) ကနဦးငှားရမ်းသူကသဘောတူ/မတူ

မူလမြေငှားစာချုပ်တွင် Wilmar Myanmar Port Terminals (Thilawa) Limited အားမူလမြေငှားရမ်းခြင်းအောက်တွင်ထပ်ဆင့်မြေငှားရမ်းခွင့်ပြုထားသည်။

*အသေးစိတ်အား **Annex XIII - Land Lease Agreement made between Myanma Port Authority and Wilmar Myanmar Port Terminals (Thilawa) Limited as amended by its Amendment Agreement dated 16 May 2018** တွင်ကြည့်ရှုပါ။*

(ဆ) မြေအမျိုးအစား

*အမှတ် ၁၀ ပန်းဆိုးတန်းလမ်း၊ ကျောက်တံတားမြို့နယ်၊ ရန်ကုန်မြို့ ၁၁၁၈၂ ရှိမြန်မာ့ဆိပ်ကမ်းအာဏာပိုင်မှ **Wilmer Myanmar Port Terminals (Thilawa) Limited** အားငှားရမ်းထားသောဆိပ်ကမ်းမြေ*

၂။ အငှားချထားသူ

(က) အမည်/ကုမ္ပဏီအမည်/ ဌာန/ အဖွဲ့အစည်း

မြန်မာ့ဆိပ်ကမ်းအာဏာပိုင်

(ခ) နိုင်ငံသားစိစစ်ရေးကတ်အမှတ်

သက်ဆိုင်မှုမရှိပါ။

(ဂ) နေရပ်လိပ်စာ

အမှတ် ၁၀ ပန်းဆိုးတန်းလမ်း၊ ကျောက်တံတားမြို့နယ်၊ ရန်ကုန်မြို့ ၁၁၁၈၂

၃။ အငှားချထားခြင်းခံရသူ

(က) အမည်/ကုမ္ပဏီအမည်/ ဌာန/ အဖွဲ့အစည်း

Wilmar Myanmar Port Terminals (Thilawa) Limited

(ခ) နိုင်ငံသားစိစစ်ရေးကတ်အမှတ်/ နိုင်ငံကူးလက်မှတ်အမှတ်

ကုမ္ပဏီမှတ်ပုံတင်အမှတ် - ၇၉၇/အက်(ဖ်)စီ/ ၂၀၁၃ - ၂၀၁၄ (၁၆ ဇန်နဝါရီ ၂၀၁၄ခုနှစ်) ခွင့်ပြုမိန့်အမှတ် - ၁၈ ဒီဇင်ဘာလ ၂၀၁၄ ရက်စွဲပါ ခွင့်ပြုမိန့်အမှတ် ၇၂၉/၂၀၁၄ နှင့် ၂၇ ဖေဖော်ဝါရီလ ၂၀၁၅ ရက်စွဲပါ ပြင်ဆင်ချက်

(ဂ) နိုင်ငံသား

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်၏ဥပဒေများနှင့်အညီတည်ထောင်သည်။

(ဃ) နေရပ်လိပ်စာ

မြေကွက်အမှတ် - ၂၀နှင့် ၂၁၊ သီလဝါဖွံ့ဖြိုးတိုးတတ်ရေးဇုန်၊ ကျောက်တန်းမြို့နယ်၊ ရန်ကုန်တိုင်းဒေသကြီး၊ ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်။

တဆင့် အငှားချထားခြင်းခံရသူ

(က) အမည်/ကုမ္ပဏီအမည်/ ဌာန/ အဖွဲ့အစည်း

Wilmar Myanmar Riceland Limited

(ခ) နိုင်ငံသားစိစစ်ရေးကတ်အမှတ်/ နိုင်ငံကူးလက်မှတ်အမှတ်

ကုမ္ပဏီမှတ်ပုံတင်အမှတ် ၁၁၀၄၃၃၁၉၀

(ဂ) နိုင်ငံသား

ပြည်ထောင်စုသမ္မတ မြန်မာနိုင်ငံတော်၏ ဥပဒေများအရ ဖွဲ့စည်း တည်ထောင်သည်။

(ဃ) နေရပ်လိပ်စာ

မြေကွက်အမှတ် - ၂၀ နှင့် ၂၁၊ သီလဝါဖွံ့ဖြိုးတိုးတက်ရေးဇုန်၊ ကျောက်တန်းမြို့နယ်၊ ရန်ကုန်တိုင်းဒေသကြီး၊ ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်။

၄။ ငှားရမ်းလိုသည့်မြေနှင့်စပ်လျဉ်းသည့်အချက်အလက်များ

(က) ရင်းနှီးမြှုပ်နှံသည့်မြေအမျိုးအစား

အမှတ် ၁၀ ပန်းဆိုးတန်းလမ်း၊ ကျောက်တံတားမြို့နယ်၊ ရန်ကုန်မြို့ ၁၁၁၈၂ ရှိမြန်မာ့ဆိပ်ကမ်းအာဏာပိုင်မှ Wilmer Myanmar Port Terminals (Thilawa) Limited အားငှားရမ်းထားသောဆိပ်ကမ်းမြေ၊

(ခ) ရင်းနှီးမြှုပ်နှံသည့်အရပ်ဒေသ(များ)

သီလဝါဆိပ်ကမ်းဧရိယာ၊ ရန်ကုန်တိုင်းဒေသကြီး တွင်တည်ရှိသော သီလဝါဆိပ်ကမ်းဧရိယာမြေကွက်အမှတ် - ၂၀ နှင့် ၂၁ (မြေဧက ၇၄.၁၃၀၈) နှင့် သီလဝါဆိပ်ကမ်းဧရိယာမြေကွက်အမှတ် -၂၁ နှင့်၂၂တို့နှင့် ကပ်လျက် ၂၆ဧကရှိ မြေကွက်လပ်၊

(ဂ) တည်နေရာ (ရပ်ကွက်၊ မြို့နယ်၊ ပြည်နယ်/တိုင်းဒေသကြီး)

ကျောက်တန်းမြို့နယ်၊ ရန်ကုန်တိုင်းဒေသကြီး၊ ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်။

(ဃ) မြေဧရိယာအကျယ်အဝန်း

၁၂၁,၄၀၆ စတုရန်းမီတာ သို့မဟုတ် ခန့်မှန်းခြေ ဧက ၃၀

(င) အဆောက်အအုံအရွယ်အစား/ အရေအတွက်

၁၅

(စ) အဆောက်အအုံတန်ဖိုး

1)	Silo 15600 m^2	USD 4.70 million
2)	Intake tower 480 m^2	USD 0.90 million
3)	White rice warehouse 3100 m^2	USD 1.55 million
4)	Bran meal warehouse 1600 m^2	USD 0.80 million
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7)	Effluent Treatment plant 3465 m^2	USD 2.40 million
8)	Rice Bran crush plant 1344 m^2	USD 4.00 million
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10)	Water treatment plant 2100 m^2	USD 3.00 million
11)	Parboiling line 2500 m^2	USD 10.00 million
12)	White rice line 6000 m^2	USD 13.60 million
13)	White rice bins 2250 m^2	USD 2.30 million
14)	Power plant 10500 m^2	USD 30.00 million
15)	Firefighting house 1000 m^2	USD 0.67 million

၅။ မြေပိုင်ဆိုင်မှု/ မြေငှားရန်အထောက်အထား(စက်မှုဇုန်မှအပ)၊ မြေပုံနှင့်မြေငှားစာချုပ် (မူကြမ်း) တင်ပြရန်။

Annex XII - Build-Operate-Transfer Contract between Myanmar port Authority and Wilmar Myanmar Port Terminals (Thilawa) Limited dated 21 December 2014 and its Amendment Agreements dated 27 May 2016 and 16 May 2018၊ Annex XIII - Land Lease Agreement between Myanma Port Authority and Wilmar Myanmar Port Terminals (Thilawa) Limited dated 21 December 2014 and its Amendment Agreement dated 16 May 2018၊Annex XV - Maps / Drawings of the Project နှင့် Annex XIV - Sub-Lease Agreement (Draft)တို့အား ကြည့်ရှုပါ။

၆။ မြေငှားရမ်းခြင်းနှင့်စပ်လျဉ်း၍အောက်ဖော်ပြပါပုဂ္ဂိုလ်ထံမှ တစ်ဆင့်ငှားရမ်းထားခြင်းရှိ - မရှိ

- ဝ နိုင်ငံတော်၏ဥပဒေများနှင့်အညီအစိုးရဌာန၊ အစိုးရအဖွဲ့အစည်းထံမှနိုင်ငံတော်ပိုင်မြေသို့မဟုတ် အဆောက်အအုံအသုံးပြုခွင့်အားယခင်ကပင် ရရှိထားသော ပုဂ္ဂိုလ်၊

မြန်မာ့ဆိပ်ကမ်းအာဏာပိုင်

- ဝ အစိုးရဌာန၊ အစိုးရအဖွဲ့အစည်း၏ ခွင့်ပြုချက်နှင့်အညီ နိုင်ငံတော်ပိုင်မြေ သို့မဟုတ်အဆောက် အအုံအားတစ်ဆင့်ငှားယူရန် သို့မဟုတ် တစ်ဆင့်လိုင်စင်ရယူရန်အခွင့်ရှိသည့်ပုဂ္ဂိုလ်။

မြန်မာ့ဆိပ်ကမ်းအာဏာပိုင်သည် Wilmar Myanmar Port Terminals (Thilawa) Limited အား မူလမြေငှားစာချုပ်ဖြင့် ငှားရမ်းထားသည်။ Wilmar Myanmar Port Terminals (Thilawa) Limited သည် မူလမြေငှားစာချုပ်အောက်တွင်ထပ်ဆင့်မြေငှားရမ်း ပိုင်ခွင့်ရှိပါသည်။

၇။ မြေ/ အဆောက်အအုံ ငှားရမ်းခနှုန်း (တစ်နှစ်လျှင်တစ်စတုရန်းမီတာအတွက်)

တစ်စတုရန်းမီတာလျှင်အမေရိကန်ဒေါ်လာ ၅.၀၀ (တစ်နှစ်လျှင်) သို့မဟုတ် တစ်စတုရန်းမီတာလျှင် အမေရိကန်ဒေါ်လာ ၀.၄၁၆၆ (တစ်လလျှင်)

တစ်ဧကလျှင်အမေရိကန်ဒေါ်လာ ၂၀,၂၃၅ (တစ်နှစ်) သို့မဟုတ် တစ်ဧကလျှင်အမေရိကန်ဒေါ်လာ ၁၆၈၆.၂၅ (တစ်လလျှင်)။

၈။ မြေအသုံးချမှုမရှီမီယံကြေး (Land Use Premium – LUP) (အစိုးရဌာန/ အစိုးရအဖွဲ့အစည်းပိုင် မြေငှားရမ်းခြင်းဖြစ်ပါက အငှားချထားခြင်းခံရသူထံမှ ငွေသားဖြင့် LUP တောင်းခံပါမည်။)

တစ်ဧကနှုန်း- *သက်ဆိုင်မှု မရှိပါ။*

၉။ မူလမြေငှားရမ်းခွင့်ရှိသူ သို့မဟုတ် မြေအသုံးပြုခွင့်ရသူမှငှားရမ်းရန်သဘောတူ/မတူ

မူလမြေငှားရမ်းခြင်းသည် မြန်မာ့ဆိပ်ကမ်းအာဏာပိုင်၏ သဘောတူညီချက်ဖြင့်မူလ မြေငှားရမ်းခြင်း အောက်တွင် Wilmar Myanmar Port Terminals (Thilawa) Limited အား ထပ်ဆင့်မြေငှားရမ်း ခွင့်ပြုထားသည်။

***Annex XIII - Land Lease Agreement made between Myanma Port Authority and Wilmar Myanmar Port Terminals (Thilawa) Limited as amended by its Amendment Agreement dated 16 May 2018**အားကြည့်ရှုပါ။*

၁၀။ လျှောက်ထားသည့်မြေ သို့မဟုတ် အဆောက်အအုံ ငှားရမ်း/ အသုံးပြုခွင့်သက်တမ်း

Wilmar Myanmar Port Terminals (Thilawa) Limited မှ Wilmar Myanmar Riceland Limited သို့ သက်ဆိုင်ရာ ထပ်ဆင့်ငှားရမ်းသည့်မြေ ၃၀ဧကအား လွှဲအပ်ကြောင်းအထောက်အထားသက်သေဖြင့် လက်ရောက်လွှဲအပ်သည့်နေ့ မှ နှစ်ပေါင်း ၅၀ နှင့်အတူ မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှု ကော်မရှင်၏ခွင့်ပြုချက်ဖြင့်ထပ်မံသက်တမ်းတိုးမည့် ၁၀နှစ် နှစ်ကြိမ် သက်တမ်း။ သို့ရာတွင် အဆိုပါ စုစုပေါင်း ငှားရမ်းမည့်ကာလ နှစ်ပေါင်း၇၀ သည် ထပ်ဆင့်ငှားရမ်းသည့်မြေ၏ မူလအငှားချထားသူဖြစ်သော မြန်မာ့ဆိပ်ကမ်းအာဏာပိုင် နှင့် အငှားချထားခြင်းခံရသူဖြစ်သော Wilmar Myanmar Port Terminals (Thilawa) Limited တို့အကြားချုပ်ဆိုထားသော ၂၀ ဒီဇင်ဘာလ ၂၀၁၄ ရက်စွဲပါ မြေငှားစာချုပ် နှင့် ၁၆ မေလ ၂၀၁၈ တွင်ပြင်ဆင်ထားသောပြင်ဆင်ချက်စာချုပ် တွင်ဖော်ပြထားသောငှားရမ်းမည့်ကာလကို ကျော်လွန်၍မရပါ။

၁၁။ စက်မှုဇုန်၊ ဟိုတယ်ဇုန်၊ ကုန်သွယ်ရေးဇုန်အစရှိသည့် သက်ဆိုင်ရာလုပ်ငန်းဇုန်ဧရိယာအတွင်းရှိမြေ ဟုတ်/ မဟုတ်(ဇုန်ကိုဖော်ပြရန်)

သက်ဆိုင်မှု မရှိပါ။

လျှောက်ထားသူလက်မှတ်

အမည် *Mr. Sun Dehai*

ရာထူး *Director*

ဌာန/ကုမ္ပဏီတံဆိပ် *Wilmar Investment Holdings Pte. Ltd.*

Annex XII

Build-Operate-Transfer Contract between Myanma Port Authority and Wilmar Myanmar Port Terminals (Thilawa) Limited dated 21 December 2014 and its Amendment Agreements dated 27 May 2016 and 16 May 2018

BUILD-OPERATE-TRANSFER CONTRACT

For

A Modern Multi-Purpose International Wharf and Integrated Agriculture Processing Facilities and Associated Utility Buildings at Thilawa Port Area

Between

MYANMA PORT AUTHORITY

And

WILMAR MYANMAR PORT TERMINALS (THILAWA) LIMITED

21st December, 2014

YANGON, MYANMAR

BUILD- OPERATE-TRANSFER CONTRACT

BETWEEN

MYANMA PORT AUTHORITY

AND

WILMAR MYANMAR PORT TERMINALS (THILAWA) LIMITED

22 DEC 2014

22 DEC 2014

SPECIAL ADHESIVE K 50000

048051 SPECIAL ADHESIVE K 100000

THIS CONTRACT is made at Yangon, the Republic of the Union of Myanmar on this 21st day December 2014

BETWEEN

MYANMA PORT AUTHORITY, an organisation existing under the Laws of the Republic of the Union of Myanmar and having its office at 10 Pansodan Street, Kyauktada Township, Yangon 11182 (hereinafter called "**MPA**") (which expression, unless repugnant to the context or the meaning thereof, shall be deemed to include its successors and permitted assigns) represented for the purpose of this Contract by U **Kyaw Myint**, Managing Director, of the one part;

AND

WILMAR MYANMAR PORT TERMINALS (THILAWA) LIMITED, a company incorporated and existing under the laws of the Republic of the Union of Myanmar and having its temporary office at No.SB, 1-2, Aung Zayar Housing Complex, Strand Road, Ahlone Township, Yangon. Myanmar (hereinafter referred to as "**Wilmar**", which expression, unless repugnant to the context or the meaning thereof, shall be deemed to include its successors and permitted assigns) represented by **Mr. Shuichi Sato** , its authorised representative , Japan National ID No. MZ0713970, of the other part,

each hereinafter referred to as "**Party**" and collectively, as "**Parties**".

RECITAL

A. MPA represents and warrants that it is the legal and beneficial owner of the parcels of land at Yangon Region, **Thilawa Port Area** plots No. 20 & 21 of 74.1308 acres and the parcel of land of 26 acres adjoining **Thilawa Port Area** plots No. 21 and 22, with a total area of 100.1308 acres, as shown in **Annex 1** hereto (hereinafter referred to as the "**Land**").

B. MPA wishes to lease the Land to Wilmar, and Wilmar is desirous of leasing the Land from MPA, for the Lease Period on the terms and conditions of the Lease Agreement to be granted hereunder for the purposes of building and operating a Modern Multi-Purpose International Wharf (hereinafter referred to as the "**Port Terminal**") and integrated

agriculture processing facilities and associated utility buildings, on the terms and conditions of this Build, Operate and Transfer Contract (hereinafter referred to as "**this Contract**").

Now this Contract is entered into upon the mutual covenants and consideration as follows:-

1. **DEFINITIONS & INTERPRETATION**

The terms used in this Contract and not defined otherwise have the meaning below:-

1.1 "**Annual Rent**" has the meaning ascribed to it in Clause 5.2.

1.2 "**Commercial Activities**" means the operation of cogeneration power plants, the operation of fertilizer mills, the operation of flour mills, oilseeds crushing, edible oils refining, sugar, specialty fats, grains processing, and the packaging and sale of consumer pack edible oils, rice, flour, sugar and grains, to be carried out on the Development Land as permitted by the Myanmar Investment Commission under the Foreign Investment Law, the Foreign Investment Rules and all related directives and notifications issued by the Government of the Republic of the Union of Myanmar.

1.3 "**Development Land**" means the land forming part of the Land on which Commercial Activities are to be carried out.

1.4 "**Government Authorities**" means government and regulatory authorities in the Republic of the Union of Myanmar;

1.5 "**Investor**" means any foreign investor or a joint venture between a foreign investor and local investor who carries out any of the Commercial Activities on the Development Land in accordance with the laws of the Republic of the Union of Myanmar.

1.6 "**Land**" has the meaning ascribed to it in Recital A;

1.7 "**Lease Agreement**" has the meaning ascribed to it in Clause 3.1.

1.8 "**Lease Period**" means the initial lease period of 50 (fifty) years with respect to the Land, including any extensions thereof whether granted under Clause 13.1 or howsoever.

1.9 "**Port Area**" means the land forming part of the Land and water space at the frontage of such Land on which the Port Terminal and cargo handling facilities are established.

1.10 "**Port Terminal**" has the meaning ascribed to it in Recital B.

1.11 "**Project**" has the meaning ascribed to it in Clause 3.2;

1.12 "**Rental**" means land use premium and annual rent as per mentioned in Clause 5 hereto.

1.13 "**Sub-lease**" means any sub-lease granted by Wilmar to an Investor over any part of the Development Land for the purpose of carrying out any of the Commercial Activities.

1.14 Unless the context otherwise requires, words importing the singular shall also include the plural and vice versa and references to persons shall include bodies corporate.

1.15 The headings and sub-headings in this Contract are for convenience of reference only and shall not affect the interpretation thereof.

1.16 All the Recitals and all schedules and annexures to this Contract, including for the avoidance of doubt the master plan of the Development Land as set out in **Annex 5**, shall be taken, read and construed as an integral part of this Contract.

1.17 All references to clauses, recitals, schedules and annexures are reference to clauses, recitals, schedules and annexures in this Contract.

2. **WARRANTY AND REPRESENTATION**

Each Party represents and warrants to the other Party that it is a legal entity duly constituted under the laws of its place of incorporation and is authorised and has the right, power, sound financial standing and authority to enter into this Contract.

3 **THE FORM OF CO-OPERATION**

3.1 MPA shall lease the Land to Wilmar and shall execute a land lease agreement of the Land in favour of Wilmar, on terms and conditions set out in such land lease agreement (the "**Lease Agreement**").

3.2 Wilmar shall at its sole expense build and operate the Port Terminal in the Port Area and shall develop the Development Land in order to sub-lease the same to Investors to carry out any of the Commercial Activities (the "**Project**") Wilmar shall (i) submit such sub-leases to the Myanmar Investment Commission ("**MIC**") for approval and (ii) obtain the consent of the MPA, before the execution of any such sub-lease. The master plan of the Development Land is set out in **Annex 5**.

3.3 Wilmar shall, or shall procure that the subsidiaries and affiliate companies of Wilmar International Limited shall, invest as Investors to carry out any of the Commercial Activities on the Development Land.

3.4 The development of the Project shall consist of the facts and matters stated in **Part A of Annex 2.**

3.5 In the event of the destruction of the construction of Port Terminal or the Land or any part thereof due to any cause including Force Majeure, the right to reconstruct

and manage the Port Terminal and the development of the Land shall not be extinguished and shall inure for the benefit of Wilmar.

4. **CONDITIONS PRECEDENT**

4.1 This Contract is conditional upon receipt of all necessary and requisite approvals from the relevant Government Authorities for the implementation of this Contract.

4.2 MPA shall provide vacant possession of the Land free of all encumbrances, liens and claims of any kind whatsoever.

5. **PAYMENT TERMS FOR LAND USE PREMIUM & THE LEASE OF THE PROPERTY**

Land use premium

5.1 Wilmar shall pay a "Land Use Premium" for the Land pursuant to the Lease Agreement at the rate of US$ 10.00 (United States Dollars Ten) per square metre (for the total area of the Land of 100.1308 acres (equivalent to 405,229.3476 m^2, based on 1 acre = 4,047 m^2)) to MPA in consideration of the covenants between Wilmar and MPA herein and in the Lease Agreement.

5.1.1 The Land Use Premium valued at US$ 4,052,293.48 (United States Dollars Four Million Fifty-two Thousand Two Hundred Ninety-three and cents Forty-Eight) shall be paid as follows: -

(a) The 1st installment of 10% (ten percent) of the Land Use Premium of US$ 405,229.36 (United States Dollars Four Hundred and Five Thousand, Two Hundred and Twenty-nine and cents Thirty-six) shall be paid within thirty (30) days after the signing of the Lease Agreement;

(b) The 2nd installment of 30% (thirty percent) of the Land Use Premium of US$ 1,215,688.04 (United States Dollars One Million Two Hundred and Fifteen Thousand and Six Hundred and Eighty-eight and cents Four) shall be paid on the 1st anniversary of the date of the Lease Agreement, provided that MPA has provided vacant possession of the Land to Wilmar free of all encumbrances, liens and claims of any kind whatsoever as stipulated under Clause 4.2.

(c) The 3rd installment of 30% (thirty percent) of the Land Use Premium of US$ 1,215,688.04 (United States Dollars One Million Two Hundred and Fifteen Thousand and Six Hundred and Eighty-eight and cents Four) shall be paid on the 2nd anniversary of the date of the Lease Agreement provided that Wilmar has already paid the 2nd installment of 30% (thirty percent) of the Land Use Premium.

(d) The 4th installment of 30% (thirty percent) of the Land Use Premium of US$ 1,215,688.04 (United States Dollars One Million Two Hundred and Fifteen Thousand and Six Hundred and Eighty-eight and cents Four) shall be paid on the 3rd anniversary of the date of the Lease Agreement provided that Wilmar has already paid the 3rd installment of 30% (thirty percent) of the Land Use Premium.

Annual Rent

5.2 For the Land, Wilmar shall pay the annual rent ("**Annual Rent**") pursuant to the Lease Agreement from the date on which Wilmar generates revenue from the Project, and the Annual Rent shall be calculated as follows:

Year of Operation	Payment
(a) From 1st to 10th year	6% of total Gross Revenue
(b) From 11th to 20th year	12% of total Gross Revenue
(c) From 21st to 35th year	18% of total Gross Revenue
(d) From 36th year onwards	20% of total Gross Revenue

Gross Revenue shall be calculated in accordance with **Annex 3.**

An advance payment of Annual Rent for any financial year ("**Relevant Financial Year**") shall be paid no later than 30th April of the financial year following the Relevant Financial Year. Such advance shall be determined on the basis of Gross Revenue as per the unaudited financial statements of Wilmar for the Relevant Financial Year.

A final settlement of the Annual Rent shall be made after the close of the Relevant Financial Year based on the audited financial statements for the Relevant Financial Year no later than 31st August after the close of the Relevant Financial Year.

6. RESPONSIBILITIES OF MPA

6.1 MPA shall use its best endeavours to ensure that Wilmar and/or its appointed contractors and subcontractors shall be given permission by any and all Government Authorities or bodies, to import and thereafter re-export (if required) without taxes, charges or duties, any and all building materials and building equipment required for the Project but subject always to the laws of the Republic of the Union of Myanmar.

6.2 MPA shall use its best endeavours to obtain the necessary approvals from the relevant Government Authorities for this Contract.

6.3 MPA shall use its best endeavours to obtain for Wilmar exemptions, privileges and reliefs from all taxes, charges, tariffs or duties under the Republic of the Union of Myanmar Foreign Investment Law and all such other relevant laws of the Republic of the Union of Myanmar as prevailing from time to time.

6.4 MPA shall use its best endeavours to assist Wilmar in obtaining multiple visas, long stay permits and work permits with the relevant authorities allowing foreign personnel to enter, reside and depart from Myanmar for the purpose of participating in the construction, management and operation of the Port Terminal.

6.5 MPA shall use its best endeavours to obtain permission from the relevant Government Authorities for Wilmar to repatriate its earnings in foreign currencies in accordance with the prevailing laws of the Republic of the Union of Myanmar.

6.6 MPA hereby agrees to allow Wilmar to sub-lease the Development Land through the execution of separate Sub-lease agreements with Investors with the approval of the MIC.

6.7 MPA hereby undertakes to assist Wilmar to obtain the approval from the MIC for the Sub-lease of the Development Land to the Investors in order for them to carry out any of the Commercial Activities.

6.8 MPA shall allow Wilmar and/or the subsidiary and affiliate companies of Wilmar International Limited to invest as Investors and carry out any of the Commercial Activities in accordance with the Republic of the Union of Myanmar Foreign Investment Law.

6.9 MPA shall allow Wilmar to operate container handling services in the Port Area for containerised cargo related to Commercial Activities on the Development Land.

6.10 MPA shall allow Wilmar to operate container handling services in the Thilawa port area at the time when MPA decides to grant additional parties as new container handling services operators.

6.11 MPA shall use its best endeavours to obtain permits for the Investors to carry out any of the Commercial Activities on the Development Land.

6.12 MPA shall use its best endeavours to obtain facilities needed for the establishment of freight station(s) including but not limited to Custom and Immigration check points, bonded warehouses, customs clearance facilities and the like;

6.13 MPA shall use its best endeavours to ensure the availability, adequacy and suitability of access roads, power supply, water supply and telecommunication facilities right up to the border of the Land for Wilmar to expeditiously implement the Project and for the Investors to expeditiously carry out their respective Commercial Activities.

6.14 MPA shall arrange for the cost of compensation or relocation (if any) of the existing tenants, licensees, occupiers of the Land in co-ordination with Wilmar.

7. **RESPONSIBILITIES OF WILMAR**

7.1 Wilmar shall pay to MPA the Land Use Premium and Annual Rent according to the terms and conditions of this Contract.

7.2 Wilmar shall build the Port Terminal expeditiously and to operate and manage the Port Terminal according to standards agreed by both Parties.

7.3 Wilmar shall undertake the development of the Land in accordance with the construction plan to be agreed by the Parties and pursuant to any subsequent amendments thereto as may be agreed by both Parties from time to time.

7.4 Wilmar shall have the right to enter into Sub-leases with the Investors with respect to the Development Land in order for the Investors to carry out any of the Commercial Activities and shall ensure that each such Sub-lease is submitted and approved by the MIC, consented to by the MPA, and complies with the laws of the Republic of the Union of Myanmar.

7.5 Wilmar and/or subsidiary and affiliate companies of Wilmar International Limited shall have the right to invest as Investors and carry out any of the Commercial Activities under and subject to the Republic of the Union of Myanmar Foreign Investment Law.

7.6 Wilmar shall transfer to MPA at the end of the Lease Period, without any payment or compensation, the Land together with all immoveable assets associated therewith in good order (fair wear and tear excepted) tested and approved by qualified surveyors whose appointment shall be mutually agreed upon.

7.7 After the Lease Period, the Investors carrying out the Commercial Activities on the Development Land shall, subject to the consent of the MIC and the approval of MPA and the new lessor (where applicable), continue with their business operations by sub-leasing that part of the Land on which their business operations are located. If the MIC's consent or the MPA's approval is not obtained for the continuation of any such business operation, Wilmar agrees that it will return that part of the Land to the MPA in its original state within a reasonable period. MPA agrees that it shall provide at least 2 (two) years prior notice to Wilmar if it wishes to extend the Lease Period.

8. **RIGHT OF RE-ENTRY**

If Wilmar in any substantial respect fails to perform or observe the terms and conditions of the Lease Agreement and fails to rectify such non-performance or non-observation within 3 (three) months after the notice in writing from the MPA of such default, the MPA shall be at liberty to re-enter upon and take possession of the whole complex of the Land and factory

buildings and the Lease Agreement shall, thereupon, cease and determine, provided that such right of re-entry shall not prejudice any right of action of the MPA for recovery of money from Wilmar by way of rent or compensation for damages.

9. **SCOPE OF CONTRACT**

9.1 Wilmar shall make an investment of US$ 79,689,634 (United States Dollars Seventy-nine Million Six Hundred and Eighty-nine Thousand and Six Hundred and Thirty-four) in the Republic of the Union of Myanmar, pursuant to the Republic of the Union of Myanmar Foreign Investment Law.

9.2 Wilmar shall construct an integrated wharf facility in the Port Area.

9.3 The construction period of the Port Terminal and the development of the Development Land shall be 2 (two) years from the signing date of this Contract.

9.4 Wilmar shall implement the Project and sublease the Development Land to Investors for carrying out the Investors' respective Commercial Activities according to the construction plan to be agreed by the Parties.

10. **PERFORMANCE GUARANTEE**

Wilmar shall issue the Performance Guarantee amounting to 1% (one percent) of the investment amount of the Project in favor of MPA substantially in the form as set out in **Annex 4**, within 45 (forty-five) days of the signing date of this Contract. The Performance Guarantee shall be released on the expiry of the third year after the date of this Contract or the completion of the construction of the Port Area, whichever is earlier.

11. **OPERATION AND MANAGEMENT**

11.1 Subject to Clause 17.2, the Project shall be operational for the duration of the Lease Period.

11.2 Wilmar shall keep proper books of accounts of the business and these accounts will be kept at Wilmar or its accountant's office in Yangon. MPA shall have the right to appoint a recognised auditor to inspect the accounts of the Port Terminal solely for the purpose of determining the value of Gross Revenue as defined under **Annex 3** during normal working hours, after giving reasonable prior notice to Wilmar.

11.3 Without prejudice to the generality of the above, any and all information obtained by MPA or its auditors, employees and agents shall be confidential and shall not be disseminated to any third party unless authorised by Wilmar or by operation of law.

11.4 It is agreed that port charges and port tarifffs shall be collected from the users according to the schedule of rates announced by the MPA from time to time. MPA

shall provide Wilmar with reasonable advance notice of any change in such port charges and port tariffs.

12. **PROTECTION OF THE ENVIRONMENT**

12.1 Wilmar shall be responsible for the preservation of the environment of the Land in accordance with the prevailing environmental laws of the Republic of the Union of Myanmar.

12.2 Wilmar shall not cause pollution of air, water, land and other environmental degradation.

12.3 Wilmar shall take necessary measures in order to fulfil its environment protection obligations with respect to the waste water treatment plant and other treatment procedures so as to keep the Project site compliant with the environmental laws of the Republic of the Union of Myanmar.

13. **TERM AND EFFECTIVE DATE OF THIS CONTRACT**

13.1 The Lease Period shall be for an initial term of 50 (fifty) years commencing either from (i) completion of the construction of the Project, (ii) 3 (three) years after Wilmar takes vacant possession of the Land, or (iii) the date on which Wilmar commences commercial operation of the Project, whichever is earliest.

13.2 The Parties may extend the Lease Period for 2 (two) further 10 (ten) year terms with the approval of Myanmar Investment Commission on existing terms and conditions.

13.3 If the term of the Lease Period is not extended pursuant to Clause 13.2, then Wilmar (or an affiliate of Wilmar nominated by Wilmar) shall be given a first right of refusal to manage and operate the Project, for a period of 2 (two) further 10 (ten) year terms from the date of expiry of the Lease Period (which for the avoidance of doubt, includes any extensions under Clause 13.2), at a fee to be agreed by the Parties but which shall reflect the prevailing market rate charged by an international port and industrial estate operator offering the same standard of management services.

14. **LAW OF PERFORMANCE**

Both Parties shall carry out their obligations arising out of this Contract, in accordance with the Laws, Rules, Regulations, directives and procedures of the Republic of the Union of Myanmar.

15. **TERMINATION OF THIS CONTRACT**

15.1 This Contract may only be terminated on one of the following grounds:-

15.1.1 breach of a material term of this Contract by one of the Parties, which if can be remedied, is not remedied within 3 (three) months from the date of notice

by the non-breaching Party to the breaching Party of such breach and request to remedy;

15.1.2 occurrence of Force Majeure for a continuous period of more than 6 (six) months;

15.1.3 incapability of implementing the original aims and objectives of this Contract; or

15.1.4 by mutual consent provided that both Parties shall jointly submit an application for the termination of this Contract to the Myanmar Investment Commission in accordance with the Republic of the Union of Myanmar Foreign Investment Law.

16. **RE-TRANSFER OF THE LAND**

16.1 At the end of the Lease Period, Wilmar shall transfer the Land and immoveable properties thereon to MPA within 6 (six) months in good condition, fair wear and tear excepted and ground damages having been refilled or repaired.

16.2 Wilmar shall have the right to be in possession and ownership of all moveable properties on the Land at the end of the lease period which shall be removed at Wilmar's costs and/or disposed of within 6 (six) months of the end of the Lease Period, and the foregoing shall not affect MPA's right to claim for the annual rent for the period that Wilmar continues to occupy the Land with the MPA's approval for the purpose of refilling/repairing any damage caused to the Land by Wilmar, up to the date of complete evacuation of the Land by Wilmar.

17. **FORCE MAJEURE**

17.1 If either Party is temporarily rendered unable, wholly or in part, by Force Majeure to perform its duties or accept performance by the other Party under this Contract, it is agreed that the affected Party shall give notice to the other Party within 14 (fourteen) days of the occurrence of the cause relied upon giving full particulars of such Force Majeure.

17.2 The duties of such Party as are affected by such Force Majeure shall, with the approval of the other Party be suspended during the period of disability so caused, but for no longer period, and such cause shall be removed with all reasonable despatch.

17.3 The term "Force Majeure" as employed herein shall mean Act of God, Strikes, Lockouts, Industrial Disturbances, War, Blockades, Insurrections, Riots, Epidemics, Civil Disturbances, Explosions, Fire, Floods, Tsunamis, Earthquakes, Storms,

Lightning and any other causes similar to the kind herein enumerated which are beyond the control of either Party and which by the exercise of due care and diligence either Party is unable to overcome.

18. **ARBITRATION**

18.1 Any dispute arising between the Parties out of or in connection with this Contract shall first be settled through negotiations done in good faith with a view to reaching an amicable settlement.

18.2 In the event that the dispute mentioned above cannot be settled amicably, such dispute shall be settled by UNCITRAL ARBITRATION RULES in Kuala Lumpur. The Process shall be conducted in the English Language.

19. **GOVERNING LAW AND JURISDICTION**

This Contract shall be read, construed, interpreted and governed in all respects by the laws, rules and regulations of the Republic of the Union of Myanmar and the Parties hereby submit to the jurisdiction of the relevant court of the Republic of the Union of Myanmar and all courts competent to hear appeals therefrom.

20. **MODIFICATION**

This Contract shall not be amended or modified in any respect except by the mutual consent in writing of the Parties thereto. Any amendments, modifications or supplement to this Contract shall be in writing, signed by all the Parties and submitted to the Myanmar Investment Commission of the Republic of the Union of Myanmar and relevant government authority/ authorities and upon approval, such amendments will form an integral part of this Contract.

21. **RENEGOTIATION OF THIS CONTRACT**

In the event of any situation or condition arising due to circumstances not envisaged in either the Lease Agreement or this Contract which warrants an amendment or modification to these documents, the Parties shall negotiate the appropriate amendments, modifications or additions in good faith and submit these amendments to the Myanmar Investment Commission for approval.

22. **ASSIGNMENT**

Wilmar will, with the approval of the MIC, have the right to transfer by a deed of assignment, all of its rights and obligations under this Contract to any group company of Wilmar which is subsequently established in Myanmar for purposes of undertaking the Project ("**transferee**") and on such transfer being notified to MPA, MPA will be deemed to have accepted the transferee as being entitled to all rights and responsible for all obligations under this Contract, in place of Wilmar.

23. **INSURANCE**

Wilmar shall adequately secure and maintain all necessary types of insurance in accordance with the provisions of the Republic of the Union of Myanmar Foreign Investment Law, Myanmar Insurance Law and Procedures.

24. **MINERAL RESOURCES AND TREASURES**

Mineral resources, treasure, gems and other natural resources discovered unexpectedly from, in or under the Land during the Lease Period of the Lease Agreement shall be the property to the Government of the Republic of the Union of Myanmar and the Government of the Republic of the Union of Myanmar shall be at liberty to excavate the aforesaid at any time.

25. **MISCELLANEOUS MATTERS**

25.1 It is expressly agreed that Wilmar shall be entitled to employ any and all consultants, experts or professional parties or experts for and in connection with the construction, operation and management of the Project provided always that the primary responsibility for the same shall lie with Wilmar.

25.2 This Contract and the agreements referred to herein embody all the terms and conditions agreed upon between the Parties hereto as to the subject matter of this Contract and supersede and cancel in all respects all previous agreements and understandings between the Parties hereto with respect to the subject matter hereof whether such be written or oral.

26. **ADDRESS FOR CORRESPONDENCE**

All correspondence exchanged between the Parties shall be sent to:-

Myanma Port Authority

No.10, Pansodan Street, Kyauktada Township,
Yangon, The Republic of the Union of Myanmar
Telephone: 95-1-246781, 379141, 379142,
Facsimile: 95-1-246781, 391355, 256321
To the attention of the: Managing Director

and

Wilmar Myanmar Port Terminals (Thilawa) Limited

No.SB, 1-2, Aung Zayar Housing Complex, Strand Road,
Ahlone Township, Yangon, The Republic of the Union of Myanmar
Telephone: 95-9-33162666
Facsimile: 95-9-33162111
To the attention of: The Group Legal Counsel

IN WITNESS WHEREOF the Parties hereto have set their respective hands and affixed their seals the day, month and year first written above.

For and on behalf of

MYANMA PORT AUTHORITY

Signed by : Kyaw Myint
Designation : Managing Director

For and on behalf of

WILMAR MYANMAR PORT TERMINALS (THILAWA) LIMITED

Signed by : Shuichi Sato
Designation : Authorised Signatory

WITNESS

For and on behalf of

MYANMA PORT AUTHORITY

Signed by : Ni Aung
Designation : General Manager
MYANMA PORT AUTHORITY

WITNESS

For and on behalf of

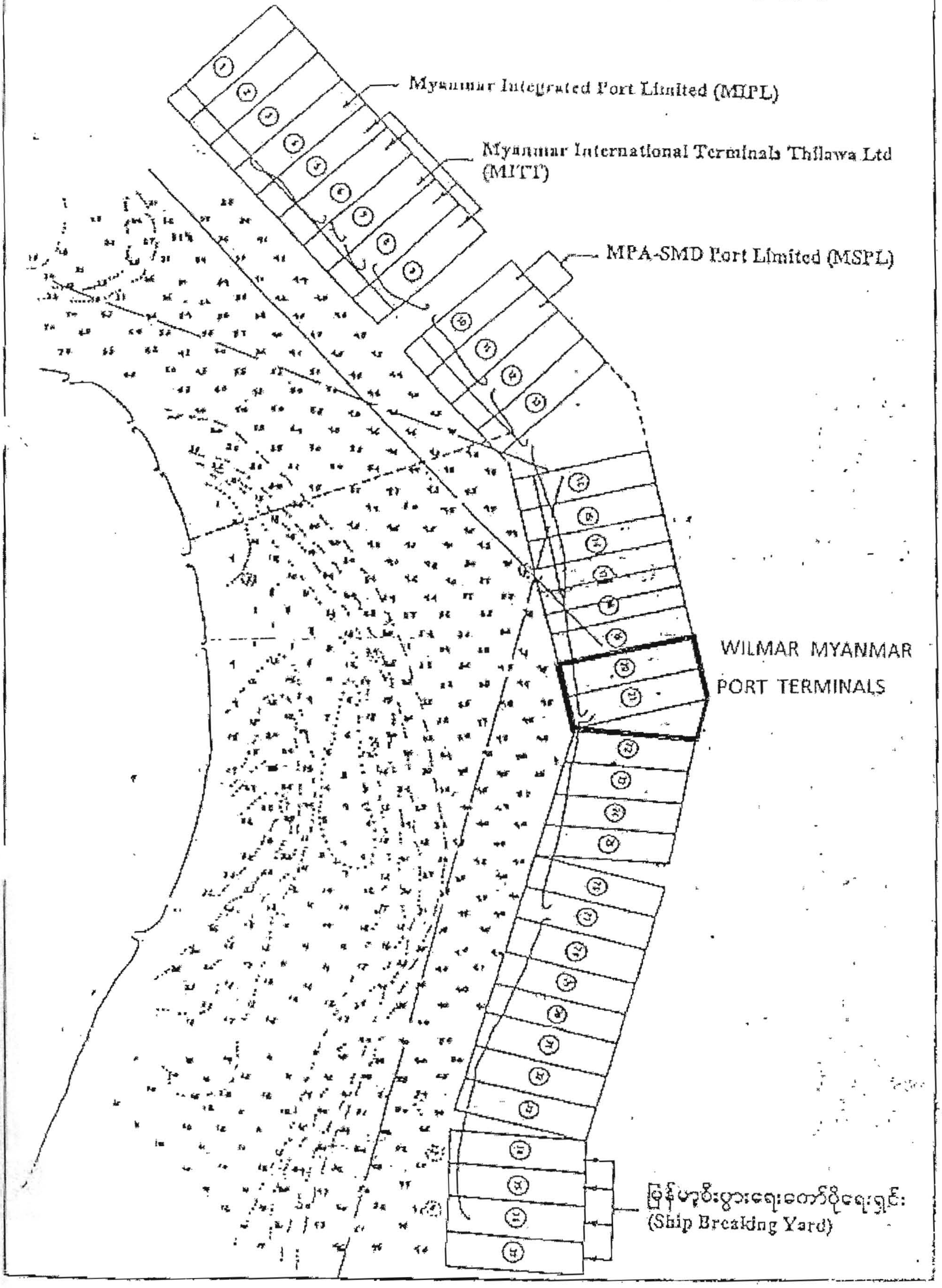
WILMAR MYANMAR PORT TERMINALS (THILAWA) LIMITED

Signed by : Maung Kyay
Designation : Director
WILMAR MYANMAR PORT TERMINALS (THILAWA) LIMITED

Annex 1

THE LAND

သီလဝါဆိပ်ကမ်း ဖွံ့ဖြိုးရေးစီမံကိန်း တည်နေရာပြပုံ



Annex 2

Part A. Scope of the Project

To build and operate the Port Terminal in the Port Area and to develop the Development Land in order to sub-lease the same to Investors to carry out any of the following Commercial Activities - the operation of cogeneration power plants, the operation of fertilizer mills, the operation of flour mills, oilseeds crushing, edible oils refining, sugar, specialty fats, grains processing, and the packaging and sale of consumer pack edible oils, rice, flour, sugar and grains, to be carried out on the Development Land as permitted by the Myanmar Investment Commission under the Foreign Investment Law, the Foreign Investment Rules and all related directives and notifications issued by the Government of the Republic of the Union of Myanmar.

Part B . List of Project Infrastructure

1. 390 metre wharf
2. 22.8 acres (92,271.60 m^2) container yard
3. A diversion channel
4. Development works on the Development Land

Annex 3

GROSS REVENUE

The term Gross Revenue means the aggregate sum of receipts from port charges and land rental as reported in the audited financial statements which shall include the following in such computation: -

(a) Demurrage income;

(b) Income from Container Services;

(c) Income from General Cargo Handling;

(d) Income from Bulk Liquid Cargo Handling;

(e) Land Rental Income - being a minimum amount of US$ 910,575.00 (United States Dollars nine hundred and ten thousand five hundred and seventy five) or land rental income actually collected at the time being whichever is higher; and

(f) Any other income from the operation of the Project.

Annex 4

PERFORMANCE GUARANTEE

MYANMA FOREIGN TRADE BANK

YANGON, MYANMAR

PERFORMANCE GUARANTEE

DATED : - - 2015

NO : ....

TO

MYANMA PORT AUTHORITY
YANGON, MYANMAR

PERFORMANCE BANK GUARANTEE NO. .... FOR US$796,896.00

In consideration of you having entered into the build-operate-transfer contract dated ....2014 with Wilmar Myanmar Port Terminals (Thilawa) Limited for the construction, operation and management of a port terminal and industrial estate project at Thilawa port area (the "Contract") and it being a condition of the Contract that a performance guarantee of one percent (1%) of the agreed investment cost of the Project amounting to United States Dollars of US$796,896.00 (the "Guarantee Amount") be issued in your favour, we (_______________ Bank) hereby irrevocably and unconditionally guarantee to pay you without delay on your first written demand through Myanma Foreign Trade Bank any amount claimed by you, up to the extent of the Guarantee Amount against your written declaration that Wilmar Myanmar Port Terminals (Thilawa) Limited has refused or failed to execute or perform any of the material terms and conditions of the Contract including that the activities pertinent to the construction of .... Project under .... shall be commenced within (..........) months and the .... Project shall be in operation within ( ) years from the date of signing of the Contract. This performance guarantee shall not be exercised more than once, and provided always that the Guarantee Amount is not exceeded in your demand.

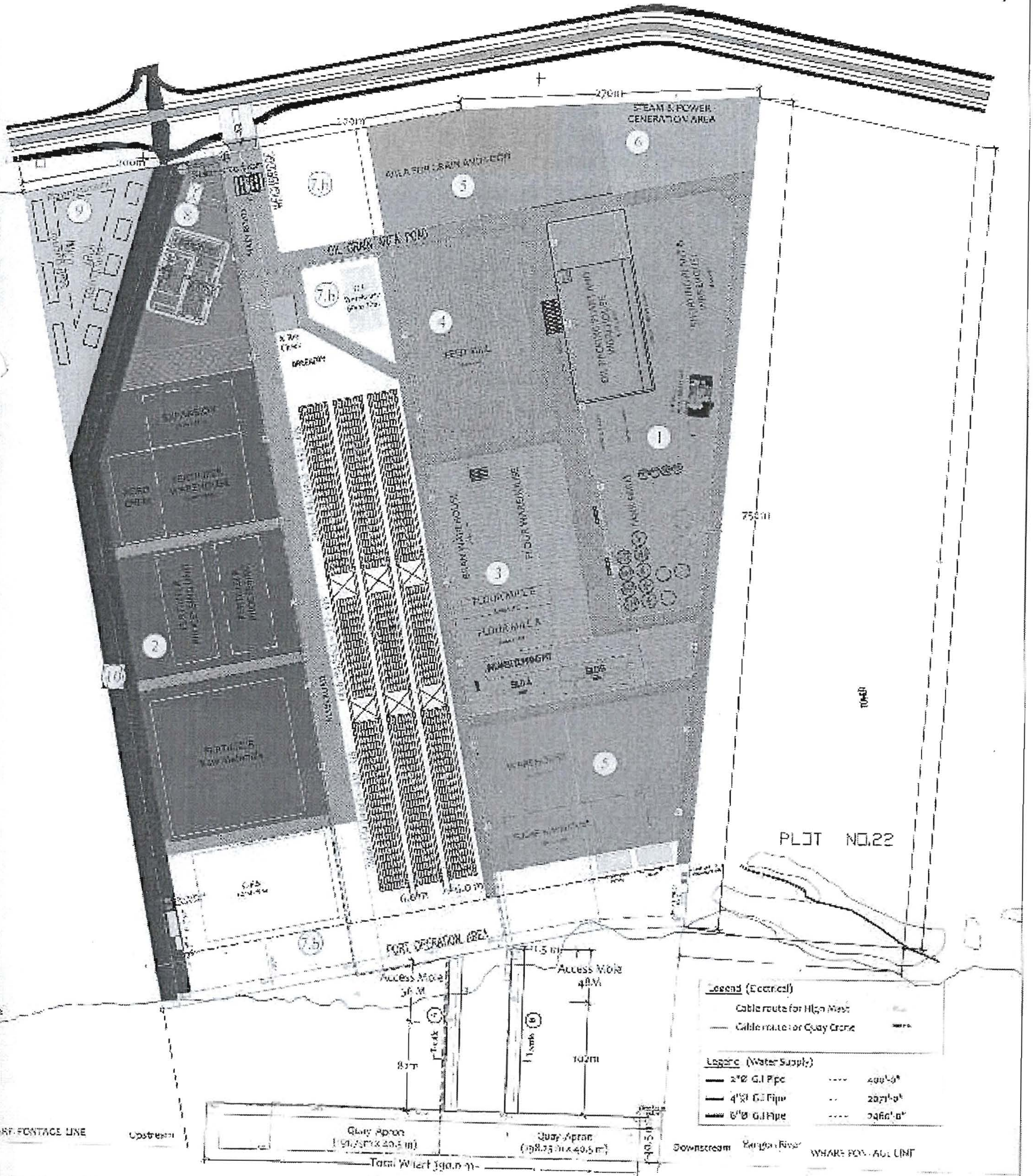
This performance guarantee shall remain valid until the date falling 3 (three) years after the date of the Contract, or the completion of the construction of the Port Area, whichever is earlier.

Signature :..................................
Designation :...............................
Bank :...

Annex 5

MASTER PLAN OF THE DEVELOPMENT LAND

PLAN LAYOUT OF PORT TERMINAL & INDUSTIRAL DEVELOPMENT IN THILAWA PLOTS (20&21) BETWEEN PLOT (21 & 22)



Oil Tank Farm & Refinery Area	----	[illegible] Acres	Plot-6	Steam Power & Generator	----	3.12 Acres	
Fertilizer Processing Area	----	14.40 Acres	Plot-6	Office & Car Parking Area	----	3.55 Acres	
Flour Mill & Warehouse Area		4.05 Acres	Plot-9	Staff Housing Area	----	4.65 Acres	
Feed Mill & Warehouse Area	--	[illegible] Acres	Plot-10	Diversion Channel Area	----	5.7 Acres	
Food Stuff & Ware House Area Future Food	----	10.68 Acres	Plot-11	All Compound Road Area	----	11.64 Acres	
A. Industrial Sub-Total Area	----	45.00 Acres		C. Infrastructure Sub Total Area	----	29.74 Acres	

Plot-7.a	Container Yard Area	----	[illegible] Acres
Plot-7.b	Port Facilities Area	----	[illegible] Acres
	B. Port Backup Area	----	25.39 Acres

A. Industrial Sub-Total Area	----	45.00 Acres
C. Infrastructure Sub Total Area		29.74 Acres
B. Port Backup Area	----	25.39 Acres
Total Area		100.13 Acres

AMENDEMENT AGREEMENT

TO THE BUILD-OPERATE-TRANSFER CONTRACT

BETWEEN

MYANMA PORT AUTHORITY

AND

WILMAR MYANMAR PORT TERMINALS

(THILAWA) LIMITED

, May, 2016

YANGON, MYANMAR

AMENDMENT AGREEMENT

TO THE BUILD- OPERATE-TRANSFER CONTRACT

BETWEEN

MYANMA PORT AUTHORITY

AND

WILMAR MYANMAR PORT TERMINALS (THILAWA) LIMITED

THIS AMENDMENT AGREEMENT is made at Yangon, the Republic of the Union of Myanmar on this 27th day May, 2016

BETWEEN

MYANMA PORT AUTHORITY, an organisation existing under the Laws of the Republic of the Union of Myanmar and having its office at 10 Pansodan Street, Kyauktada Township, Yangon 11182 (hereinafter called "**MPA**") (which expression, unless repugnant to the context or the meaning thereof, shall be deemed to include its successors and permitted assigns) represented for the purpose of this Amendment Agreement by **U Kyaw Myint**, Chief Executive Officer, of the one part;

AND

WILMAR MYANMAR PORT TERMINALS (THILAWA) LIMITED, a company incorporated and existing under the laws of the Republic of the Union of Myanmar and having its office at No.SB, 1-2, Aung Zayar Housing Complex, Strand Road, Ahlone Township, Yangon, Myanmar (hereinafter referred to as "**Wilmar**", which expression, unless repugnant to the context or the meaning thereof, shall be deemed to include its successors and permitted assigns) represented by **Mr. Shuichi Sato**, its authorised representative and Director, Japanese National ID No. MZ0713970, of the other part,

each hereinafter referred to as "**Party**" and collectively, as "**Parties**".

RECITAL

A. The MPA and Wilmar entered into a Build-Operate-Transfer Contract on 21 December 2014 (the "**BOT Contract**") for the purposes of building and operating a Modern Multi-Purpose International Wharf (hereinafter referred to as the "**Port Terminal**") and integrated agriculture processing facilities and associated utility buildings, on the terms and conditions thereof.

B. In connection with the BOT Contract, the MPA leased to Wilmar the parcels of land at Yangon Region, Thilawa Port Area plots No. 20 & 21 of 74.1308 acres and the parcel of

land of 26 acres adjoining Thilawa Port Area plots No. 21 and 22, with a total area of 100.1308 acres pursuant to a Lease Agreement dated 21 December 2014 (the "**Lease Agreement**").

C. Pursuant to Clause 9.3 of the BOT Contract, it was stated that the construction period of the Port Terminal and the development of the Development Land (both terms as defined in the BOT Contract) shall be 2 (two) years from the signing date of the BOT Contract.

D. The Myanmar Investment Commission, at its meeting 3/2015 held on 27 February 2015, approved the amendment of the said construction period of Wilmar from two (2) years to 3 (years) and on 10 April 2015 issued a "Decision of the Myanmar Investment Commission for Amendment of the construction period of Wilmar Myanmar Port Terminals (Thilawa) Limited" (under document reference no. : DICA-3/FI-768/2015(596)) recording the decision (the "**MIC Decision**"). A copy of the MIC Decision is set out in the Annex A to this Amendment Agreement

E. Accordingly, the Parties wish to amend the BOT Contract under and subject to the terms of this Amendment Agreement, so that the construction period stated in the BOT Contract is consistent with the MIC decision.

Now this Amendment Agreement is entered into upon the mutual covenants and consideration as follows:-

1. DEFINITIONS & INTERPRETATION

In this Amendment Agreement:-

1.1 Save where expressly provided for otherwise, words and expressions defined in the BOT Contract have the same meanings when used in this Amendment Agreement.

1.2 Unless the context otherwise requires, words importing the singular shall also include the plural and vice versa and references to persons shall include bodies corporate.

1.3 The headings and sub-headings in this Amendment Agreement are for convenience of reference only and shall not affect the interpretation thereof.

1.4 All the Recitals and annexures to this Amendment Agreement, shall be taken, read and construed as an integral part of this Amendment Agreement.

1.5 All references to clauses, recitals and annexures are reference to clauses, recitals and annexures in this Amendment Agreement.

2. AMENDMENT

2.1 On and with effect from 27 February 2015, the Parties agree that Clause 9.3 of the BOT Contract shall be deleted in total and be replaced in its entirety by the following new Clause 9.3 set out below:-

> "9.3 The construction period of the Port Terminal and the development of the Development Land shall be 3 (three) years from the signing date of the BOT Contract executed between MPA and Wilmar on 21.12.2014",

and that accordingly, page 8 of the BOT Contract shall be amended and shall be read in the form set out in Annex B hereto.

2.2 This Amendment Agreement shall not affect or amend any other right or obligation of the Parties under the BOT Contract and the Lease Agreement (collectively, the "**Main Contracts**") save as provided hereunder. All other terms and conditions prescribed in the Main Contracts, other than amended hereunder, shall remain unchanged and be in full force and effect.

2.3 This Amendment Agreement is conditional upon the approval of the MIC. Subject to the approval of the MIC, this Amendment Agreement shall come into force on from 27 February 2015 and form an integral part of the BOT Contract.

3. MODIFICATION

This Amendment Agreement shall not be amended or modified in any respect except by the mutual consent in writing of the Parties thereto. Any amendments, modifications or supplement to this Amendment Agreement shall be in writing, signed by all the Parties and submitted to the Myanmar Investment Commission of the Republic of the Union of Myanmar and relevant government authority/ authorities and upon approval, such amendments will form an integral part of this Amendment Agreement.

4. ADDRESS FOR CORRESPONDENCE

All correspondence exchanged between the Parties shall be sent to:-

Myanma Port Authority

No.10, Pansodan Street, Kyauktada Township,
Yangon, The Republic of the Union of Myanmar
Telephone: 95-1-246781, 379141, 379142,
Facsimile: 95-1-246781, 391355, 256321
To the attention of the: Chief Executive Officer

and

Wilmar Myanmar Port Terminals (Thilawa) Limited

Plot No.20 & 21. Thilawa Port Development Zone,
KyaukTan Township. Yangon Region. The Republic of the Union of Myanmar
Telephone: 95-9-33162666
Telephone: 95-9-254148009
To the attention of: Mr. Shuichi Sato, Director

IN WITNESS WHEREOF the Parties hereto have set their respective ~~hands and~~ affixed their seals the day, month and year first written above.

For and on behalf of

MYANMA PORT AUTHORITY

Signed by : Kyaw Myint
Designation : Chief Executive Officer

For and on behalf of

WILMAR MYANMAR PORT TERMINALS (THILAWA) LIMITED

Signed by : Shuichi Sato
Designation : Director, Authorized Signatory

Witness

For and on behalf of

MYANMA PORT AUTHORITY

Signed by : U Ni Aung
Designation : General Manager

Witness

For and on behalf of

WILMAR MYANMAR PORT TERMINALS (THILAWA) LIMITED

Signed by : Maung Kyay
Designation : Director

ANNEX A

Decision of the Myanmar Investment Commission for Amendment of the construction period of Wilmar Myanmar Port Terminals (Thilawa) Limited
(under document reference no. : DICA-3/FI-768/2015(596))

THE REPUBLIC OF THE UNION OF MYANMAR
MYANMAR INVESTMENT COMMISSION
No.(1), Thitsar Road, Yankin Township, Yangon

Our ref. DICA-3/FI-768/2015(696) Tel: 95-1-658128

Date : 16th April 2015 Fax: 95-1-657141

Subject : Decision of the Myanmar Investment Commission for Amendment of the construction period of Wilmar Myanmar Port Terminals(Thilawa) Limited.

Reference: Wilmar Myanmar Port Terminals (Thilawa) Limited Letter dated (20-3-2015).

1. The Myanmar Investment Commission, at its meeting (3/2015) held on (27-2-2015), had approved that the construction period of Wilmar Myanmar Port Terminals (Thilawa) Limited be amended from 2 (two) years to 3 (three) years.

2. Hence, the amendment of the construction period is 3 (three) years according on the Permit No. 729/2014 dated 18-12-2014.

3. It is also notified that Wilmar Myanmar Port Terminals (Thilawa) Limited shall have to abide by all terms and conditions stated on the Commission's Letter No. DICA-3/FI-927/2014(798) dated 18-12-2014.

for Chairman
(Mya Thuza, Joint Secretary)

Wilmar Myanmar Port Terminals (Thilawa) Limited

cc:

1. Office of the Union Government of the Republic of the Union of Myanmar
2. Ministry of Home Affairs
3. Ministry of Foreign Affairs
4. Ministry of Environmental Conservation and Forestry
5. Ministry of Electric Power
6. Ministry of Immigration and Population

7. Ministry of Transport
8. Ministry of Industry
9. Ministry of Commerce
10. Ministry of Finance
11. Ministry of National Planning and Economic Development
12. Ministry of Labour, Employment and Social Security
13. Central Bank of Myanmar
14. Office of the Yangon Region Government
15. Director General, Directorate of Investment and Company Administration
16. Director General, Directorate of Industrial Supervision and Inspection
17. Director General, Customs Department
18. Director General, Internal Revenue Department
19. Director General, Directorate of Trade
20. Director General, Immigration and National Registration Department
21. Director General, Directorate of Labour
22. Managing Director, Myanma Foreign Trade Bank
23. Managing Director, Myanma Investment and Commercial Bank
24. Managing Director, Myanma Insurance
25. Managing Director, Myanma Electric Power Enterprise
26. Managing Director, Myanma Port Authority
27. Chairman, Republic of the Union of Myanmar Federation of Chambers of Commerce and Industry(UMFCCI)

Form (2)
Annexe 1

THE REPUBLIC OF THE UNION OF MYANMAR

THE MYANMAR INVESTMENT COMMISSION

Amendment on Permit No. 729/2014, dated 18 December 2014

The Myanmar Investment Commission, at its meeting 3/2015 held on 27th February 2015, had approved that the amendment of the construction period of Wilmar Myanmar Port Terminals (Thilawa) Limited from 2 (two) years to 3 (three) years.

(k) Construction period 3 (THREE) YEARS

(Mya Thuza)
Joint Secretary

[illegible]

မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်
အမှတ်-၁၊ သာယာဝတီလမ်း၊ ရန်ကင်းမြို့နယ်၊ ရန်ကုန်မြို့

တယ်လီဖုန်း-၀၁-၆၅၈၀၁၂၈
ဖက်(စ်) -၀၁-၆၅၈၀၄၁

စာအမှတ်၊ ရက-၃/ န-၉၂၇/ ၂၀၁၅(၁၅၅)
ရက်စွဲ၊ ၂၀၁၅ ခုနှစ် မတ်လ ၉ ရက်

အကြောင်းအရာ။ Wilmar Myanmar Port Terminals (Thilawa) Limited၏ တည်ဆောက်ရေး ကာလ ပြင်ဆင်ခွင့်ပြုပါရန် တင်ပြခြင်း

ရည်ညွှန်းချက်။ Wilmar Myanmar Port Terminals (Thilawa) Limited၏ ၂၀၁၅ ခုနှစ် ဇန်နဝါရီလ ၁၃ ရက်နေ့စွဲပါစာ

၁။ Wilmar Myanmar Port Terminals (Thilawa) Limited ရည်ညွှန်းပါစာဖြင့် မူလ တည်ဆောက်ရေး ကာလ ၂ နှစ်မှ ၃ နှစ်သို့ ပြင်ဆင်ခွင့်ပြုပါရန် တင်ပြလာသည့်ကိစ္စနှင့် စပ်လျဉ်း၍ ၂၀၁၅ ခုနှစ် ဖေဖော်ဝါရီလ ၂၇ ရက်နေ့တွင် ကျင်းပခဲ့သော မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်၏ ၃/၂၀၁၅ ကြိမ်မြောက် အစည်းအဝေးမှ "တည်ဆောက်ရေး ကာလ ၂ နှစ်မှ ၃ နှစ်သို့ ပြင်ဆင်ခွင့် ပြုပါရန်" ဆုံးဖြတ်ခဲ့ပါသည်။

၂။ သို့ဖြစ်ပါ၍ ကော်မရှင် အစည်းအဝေးဆုံးဖြတ်ချက်ကို သိရှိနိုင်ပါရန်နှင့် ကော်မရှင် ခွင့်ပြုမိန့်မူရင်းတွင် ပြင်ဆင်နိုင်ရန်အတွက် ဂန်ဒေါင်မှုစရိတ်အဖြစ် ကျပ် ၂၅၀၀၀၀ (ကျပ် နှစ်သိန်းငါးသောင်း တိတိ)အား ရင်းနှီးမြှုပ်နှံမှုနှင့် ကုမ္ပဏီများညွှန်ကြားမှု ဦးစီးဌာနသို့ ငွေပေး သွင်းရန်နှင့် ငွေပေးသွင်း ပြီးကြောင်းချလံ (မူရင်း)အား ဤကော်မရှင်သို့ ပေးပို့ရန် အကြောင်း ကြားပါသည်။

ဥက္ကဋ္ဌ(ကိုယ်စား)
(မြသူဇာ၊ တွဲဖက်အတွင်းရေးမှူး)

မန်နေဂျင်းဒါရိုက်တာ
Wilmar Myanmar Port Terminals (Thilawa) Limited
အမှတ်-အက်စ်ဘီ၊ ၁-၂၊အောင်ဇေယျအိမ်ရာ
ကမ်းနားလမ်း၊ အလုံမြို့နယ်
ရန်ကုန်တိုင်းဒေသကြီး။
မိတ္တူကို
ဦးဆောင်ညွှန်ကြားရေးမှူး၊ မြန်မာ့ဆိပ်ကမ်းအာဏာပိုင်
ရုံးလက်ခံ/ မျှောစာတွဲ

ANNEX B

Amendment to Page 8 of the BOT Contract

(see following one (1) page)

buildings and the Lease Agreement shall, thereupon, cease and determine, provided that such right of re-entry shall not prejudice any right of action of the MPA for recovery of money from Wilmar by way of rent or compensation for damages.

9. SCOPE OF CONTRACT

9.1 Wilmar shall make an investment of US$ 79,689,634 (United States Dollars Seventy-nine Million Six Hundred and Eighty-nine Thousand and Six Hundred and Thirty-four) in the Republic of the Union of Myanmar, pursuant to the Republic of the Union of Myanmar Foreign Investment Law.

9.2 Wilmar shall construct an integrated wharf facility in the Port Area.

9.3 **The construction period of the Port Terminal and the development of the Development Land shall be 3 (three) years from the signing date of the BOT Contract executed between MPA and Wilmar on 21.12.2014.**

9.4 Wilmar shall implement the Project and sublease the Development Land to Investors for carrying out the Investors' respective Commercial Activities according to the construction plan to be agreed by the Parties.

10. PERFORMANCE GUARANTEE

Wilmar shall issue the Performance Guarantee amounting to 1% (one percent) of the investment amount of the Project in favor of MPA substantially in the form as set out in Annex 4, within 45 (forty-five) days of the signing date of this Contract. The Performance Guarantee shall be released on the expiry of the third year after the date of this Contract or the completion of the construction of the Port Area, whichever is earlier.

11. OPERATION AND MANAGEMENT

11.1 Subject to Clause 17.2, the Project shall be operational for the duration of the Lease Period.

11.2 Wilmar shall keep proper books of accounts of the business and these accounts will be kept at Wilmar or its accountant's office in Yangon. MPA shall have the right to appoint a recognised auditor to inspect the accounts of the Port Terminal solely for the purpose of determining the value of Gross Revenue as defined under Annex 3 during normal working hours, after giving reasonable prior notice to Wilmar.

11.3 Without prejudice to the generality of the above, any and all information obtained by MPA or its auditors, employees and agents shall be confidential and shall not be disseminated to any third party unless authorised by Wilmar or by operation of law.

11.4 It is agreed that port charges and port tarifffs shall be collected from the users according to the schedule of rates announced by the MPA from time to time. MPA

SECOND AMENDMENT AGREEMENT

TO THE BUILD- OPERATE-TRANSFER CONTRACT

For

A Modern Multi-Purpose International Wharf and Integrated Agriculture Processing Facilities and Associated Utility Buildings

at Thilawa Port Area

BETWEEN

MYANMA PORT AUTHORITY

AND

WILMAR MYANMAR PORT TERMINALS (THILAWA) LIMITED

May, 2018

YANGON, MYANMAR

SECOND AMENDMENT AGREEMENT
TO THE BUILD- OPERATE-TRANSFER CONTRACT

BETWEEN

MYANMA PORT AUTHORITY

AND

WILMAR MYANMAR PORT TERMINALS (THILAWA) LIMITED

THIS SECOND AMENDMENT AGREEMENT TO THE BUILD- OPERATE-TRANSFER CONTRACT is made at Yangon, the Republic of the Union of Myanmar on this 16th day May, 2018

BETWEEN

MYANMA PORT AUTHORITY, an organisation existing under the Laws of the Republic of the Union of Myanmar and having its office at 10 Pansodan Street, Kyauktada Township, Yangon 11182 (hereinafter called "**MPA**") (which expression, unless repugnant to the context or the meaning thereof, shall be deemed to include its successors and permitted assigns) represented for the purpose of this 2ND Amendment Agreement by **U Ni Aung**, Managing Director, of the one part;

AND

WILMAR MYANMAR PORT TERMINALS (THILAWA) LIMITED, a company incorporated and existing under the laws of the Republic of the Union of Myanmar and having its registered office at Plot No. 20 & 21, Thilawa Development Zone, Kyauktan Township, Yangon, Myanmar (hereinafter referred to as "**Wilmar**", which expression, unless repugnant to the context or the meaning thereof, shall be deemed to include its successors and permitted assigns) represented by **Mr. Sun DeHai**, its authorised representative and Managing Director, Chinese National ID No. G55016533, of the other part,

each hereinafter referred to as "**Party**" and collectively, as "**Parties**".

RECITAL

A. The MPA and Wilmar entered into a Build-Operate-Transfer Contract on 21 December 2014 (the "**Original BOT Contract**") for the purposes of building and operating a Modern Multi-Purpose International Wharf (hereinafter referred to as the "**Port Terminal**") and integrated agriculture processing facilities and associated utility buildings, on the terms and conditions thereof. The Original BOT Contract was amended pursuant to an Amendment Agreement dated 27 May 2016 between the same parties (the "1st Amendment Agreement"). (The 1st Amendment Agreement and the Original BOT Contract, collectively, the "**BOT Contract**").

B. Clause 1.2 of the Original BOT Contract states that "Commercial Activities" means the operation of cogeneration power plants, the operation of fertilizer mills, the operation of flour mills, oilseeds crushing, edible oils refining, sugar, specialty fats, grains processing, and the packing and sales of consumer pack edible oils, rice, flour, sugar and grains, to be carried out on the Development Land as permitted by the Myanmar Investment Commission under the Foreign Investment Law, the Foreign Investment Rules and all related directives and notifications issued by Government of the Republic of the Union of Myanmar."

C. Subject to the approval of the MIC [given under Permit no. 003/2017 dated 17th July 2017 which is attached as **Annex-A**], Wilmar is seeking to lease a portion of the Development Land to a company to be named "Wilmar Myanmar Logistics Limited" ("WMLL"), which will be a part of the Wilmar group of companies, to carry on the following business:-

"Construction and operation of storage tanks, terminals, warehouses and other storage facilities for edible oils and its related products",

D. In addition to the foregoing, Wilmar may in the future consider subleasing a part of the Development Land to third party investors where such subleasing is in alignment with Wilmar's strategic plans for the development of the Development Land, enhances the Commercial Activities undertaken and complies with applicable Myanmar law. The ability to sublease to third party investors will broaden the pool of investors and allow Wilmar to identify and select businesses that will enhance Commercial Activities that are already being carried on. For the avoidance of doubt, Wilmar will as the lessee to the MPA continue to be solely responsible to the MPA under the BOT Contract and the Lease Agreement, and the MPA will not be adversely affected under the BOT Contract and Lease Agreement by the ability of Wilmar to sublease to third party investors.

E. Accordingly, the Parties wish to amend the BOT Contract pursuant and subject to the terms of this 2nd Amendment Agreement.

Now this 2nd Amendment Agreement is entered into upon the mutual covenants and consideration as follows:-

1. **DEFINITIONS & INTERPRETATIONS**

In this 2nd Amendment Agreement:-

1.1 Save where expressly provided for otherwise, words and expressions defined in the BOT Contract have the same meanings when used in this 2nd Amendment Agreement.

1.2 Unless the context otherwise requires, words importing the singular shall also include the plural and vice versa and references to persons shall include bodies corporate.

1.3 The headings and sub-headings in this 2nd Amendment Agreement are for convenience of reference only and shall not affect the interpretation thereof.

1.4 All the Recitals and annexures to this 2nd Amendment Agreement, shall be taken, read and construed as an integral part of this 2nd Amendment Agreement.

1.5 All references to clauses, recitals and annexures are reference to clauses, recitals and annexures in this 2nd Amendment Agreement.

2. **AMENDMENTS**

2.1 The words and expressions mentioned in Clause 1.2 "Commercial Activities" under Definitions and Interpretations clause shall be deleted and substituted as follows:-

"1.2 Commercial Activities" means the operation of cogeneration power plants, the operation of fertilizer mills, the operation of flour mills, oilseeds crushing, edible oils refining and construction and operation of storage tanks, terminals, warehouses and other storage facilities for edible oils and its related products, sugar, specialty fats, grains processing, the packaging and sale of consumer pack edible oils, rice, flour, sugar and grains, to be carried out on the Development Land as permitted by the Myanmar Investment Commission under the Myanmar Investment Law, the Myanmar Investment Rules, substitute

legislation and all related directives and notifications issued by the Government of the Republic of the Union of Myanmar."

2.2 The Clause 3 "The Form of Co-operation" Sub-clause 3.3 of the BOT Contract shall be deleted and substituted as follows:-

"3.3 Wilmar shall, or shall procure that the subsidiaries and affiliate companies of Wilmar International Limited and/or any third party entities shall, invest as Investors to carry out any of the Commercial Activities on the Development Land."

2.3 The Clause 6 "Responsibilities of MPA" Sub-clause 6.8 of the BOT Contract shall be deleted and substituted as follows:-

"6.8 MPA shall allow Wilmar and/or the subsidiary and affiliate companies of Wilmar International Limited and/or any third party entities to invest as Investors and carry out any of the Commercial Activities in accordance with the Republic of the Union of Myanmar Investment Law."

2.4 The Clause 7 "Responsibilities of Wilmar" Sub-clause 7.5 of the BOT Contract shall be deleted and substituted as follows:-

"7.5 Wilmar and/or subsidiary and affiliate companies of Wilmar International Limited and/or any third party entities, shall have the right to invest as Investors and carry out any of the Commercial Activities under and subject to the Republic of the Union of Myanmar Investment Law."

3. **ADDRESS FOR CORRESPONDENCE**

The Clause 26 "Address for correspondence of the BOT Contract" shall be deleted and substituted as follows:-

Myanma Port Authority
No.10, Pansodan Street, Kyauktada Township,
Yangon, The Republic of the Union of Myanmar
Telephone: 95-1-246781, 379141, 379142,
Facsimile: 95-1-246781, 391355, 256321
To the attention of the: Managing Director

and

Wilmar Myanmar Port Terminals (Thilawa) Limited

No.10, Myamarlar Street, Thaketa Industrial Zone,

Thaketa Township, Yangon, The Republic of the Union of Myanmar

Telephone: 95-9-33162666

To the attention of: The Group Legal Counsel

4. Other contents and clauses of the BOT Contract not mentioned herein shall remain effective and be unchanged, exception of otherwise agreed by the Parties in written.

5. This 2nd Amendment is an integral part of the BOT Contract and has the same applicable law and jurisdiction as the BOT Contract.

6. This 2nd Amendment shall take effect from the date of signing mentioned above until terminating the validity of the BOT Contract exception of otherwise agreed by the Parties.

IN WITNESS WHEREOF the Parties hereto have set their respective hands and affixed their seals the day, month and year first written above.

For and on behalf of

MYANMA PORT AUTHORITY

Signed by : Ni Aung

Designation : Managing Director

Witness

For and on behalf of

MYANMA PORT AUTHORITY

Signed by : Thet Tun

Designation : General Manager

For and on behalf of

WILMAR MYANMAR PORT TERMINALS (THILAWA) LIMITED

Signed by : Sun DeHai

Designation : Managing Director

Witness

For and on behalf of

WILMAR MYANMAR PORT TERMINALS (THILAWA) LIMITED

Signed by : Sim Kian Thiam

Designation : Chief Financial Controller

Annex-2

The words and expressions of the project in Part A of Annex 2 of the BOT Contract shall be deleted and substituted as follows:-

"To build and operate the Port Terminal in the Port Area and to develop the Development Land in order to sub-lease the same to Investors to carry out any of the following Commercial Activities - the operation of cogeneration power plants, the operation of fertilizer mills, the operation of flour mills, oilseeds crushing, edible oils refining and construction and operation of storage tanks, terminals, warehouses and other storage facilities for edible oils and its related products, sugar, specialty fats, grains processing, the packaging and sale of consumer pack edible oils, rice, flour and grains to be carried out on the Development Land as permitted by the Myanmar Investment Commission under the Myanmar Investment Law, the Myanmar Investment Rules, substitute legislation and all related directives and notifications issued by the Government of the Republic of the Union of Myanmar."

Annex - A

The Republic of the Union of Myanmar
Myanmar Investment Commission
Permit

Republic of the Union of Myanmar
Sr.No.502 Form (3)
Date 17.7.2017
Myanmar Investment Commission

Permit No. 003/2017

Date 17 July 2017

This permit is issued by the Myanmar Investment Commission according to the section 25, sub-section (c) of the Myanmar Investment Law: -

(1) Name of Investor MR. THOMAS JOSEPH LIM KIM GUAN (LIN QINYUAN)

(2) Citizenship SINGAPORE

(3) Residence Address 56 NEIL ROAD, SINGAPORE 088830

(4) Name and Address of Principle Organization WILMAR INVESTMENT HOLDINGS PTE. LTD., 56 NEIL ROAD, SINGAPORE 088830

(5) Place of Incorporation REPUBLIC OF SINGAPORE

(6) Type of Business CONSTRUCTION AND OPERATION OF STORAGE TANKS, TERMINALS, WAREHOUSES AND OTHER STORAGE FACILITIES FOR EDIBLE OILS AND ITS RELATED PRODUCTS

(7) Place(s) of Investment Project THILAWA PORT AREA PLOT NO. 20 & 21 AND THE PARCEL OF LAND ADJOINING THILAWA PORT AREA PLOT NO. 21 & 22, YANGON REGION

(8) Amount of Foreign Capital US$ 1.679 MILLION

(9) Period for Foreign Capital to be Brought in WITHIN 12 MONTHS FROM THE DATE OF ISSUANCE OF MIC PERMIT

(10) Total Amount of Capital (Kyat) EQUIVALENT IN KYAT OF USD 6.997 MILLION (INCLUDING US$ 1.679 MILLION)

(11) Construction Period 12 MONTHS

(12) Validity of Investment Permit 50 YEARS

(13) Form of Investment JOINT VENTURE

(14) Name of Company Incorporated in Myanmar WILMAR MYANMAR LOGISTICS LIMITED

17.7.17

Chairman
Myanmar Investment Commission

ပုံစံ (၃)

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်
မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်
ခွင့်ပြုမိန့်

ခွင့်ပြုမိန့်အမှတ် ၀၀၃/၂၀၁၇ ၂၀၁၇ ခုနှစ်၊ ဇူလိုင် လ ၁၄ ရက်

မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်သည် မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုဥပဒေပုဒ်မ ၂၅ ပုဒ်မခွဲ (ဂ) အရ ဤခွင့်ပြုမိန့်ကို ထုတ်ပေးလိုက်သည် -

(၁) ရင်းနှီးမြှုပ်နှံသူအမည် MR. THOMAS JOSEPH LIM KIM GUAN (LIN QINYUAN)

(၂) နိုင်ငံသား SINGAPORE

(၃) နေရပ်လိပ်စာ 56 NEIL ROAD, SINGAPORE 088830

(၄) ပင်မအဖွဲ့အစည်းအမည်နှင့် လိပ်စာ WILMAR INVESTMENT HOLDINGS PTE. LTD. 56 NEIL ROAD, SINGAPORE 088830

(၅) ဖွဲ့စည်းရာအရပ် REPUBLIC OF SINGAPORE

(၆) ရင်းနှီးမြှုပ်နှံသည့်လုပ်ငန်းအမျိုးအစား စားသုံးဆီများနှင့် ၎င်း၏ ဆက်စပ်ထုတ်ကုန်များအတွက် သိုလှောင်ကန်များ၊ ပို့ဆောင်သယ်ယူရန် သိုလှောင်ရုံများ၊ ကုန်စည်သိုလှောင်ရုံများနှင့် အခြားသော သိုလှောင်မှုအထောက်အပံ့ကို ဆောက်လုပ်ခြင်းနှင့် လုပ်ငန်းလည်ပတ်ခြင်းလုပ်ငန်း

(၇) ရင်းနှီးမြှုပ်နှံသည့်အရပ်ဒေသ(များ) မြေကွက်အမှတ် ၂၀ နှင့် ၂၁ အပြင် ၂၁ နှင့် ၂၂ ကြား၊ သီလဝါဆိပ်ကမ်းဒေသ၊ ရန်ကုန်တိုင်းဒေသကြီး

(၈) နိုင်ငံခြားမတည်ငွေရင်းပမာဏ အမေရိကန်ဒေါ်လာ ၁.၆၇၉ သန်း

(၉) နိုင်ငံခြားမတည်ငွေရင်းယူဆောင်လာရမည့်ကာလ ကော်မရှင်ခွင့်ပြုမိန့်ရရှိသည့်နေ့မှ ၁၂ လ အတွင်း

(၁၀) စုစုပေါင်းမတည်ငွေရင်းပမာဏ(ကျပ်) အမေရိကန်ဒေါ်လာ ၆.၉၉၇ သန်း နှင့် ညီမျှသော မြန်မာကျပ်ငွေ (အမေရိကန်ဒေါ်လာ ၁.၆၇၉ သန်း အပါအဝင်)

(၁၁) တည်ဆောက်မှု/ပြင်ဆင်မှုကာလ ၁၂ လ

(၁၂) ရင်းနှီးမြှုပ်နှံမှုခွင့်ပြုသည့် သက်တမ်း ၅၀ နှစ်

(၁၃) ရင်းနှီးမြှုပ်နှံမှုပုံစံ ဖက်စပ်နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှု

(၁၄) မြန်မာနိုင်ငံတွင်ဖွဲ့စည်းမည့်ကုမ္ပဏီအမည် WILMAR MYANMAR LOGISTICS LIMITED (ဝေလ်မာမြန်မာလော်ဂျစ်စတစ်(စ်)လီမိတက်)

17.7.17

ဥက္ကဋ္ဌ
မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်

Confidential

Republic of the Union of Myanmar Sr.No. 340-A Date 17-7-2017 Myanmar Investment Commission

THE REPUBLIC OF THE UNION OF MYANMAR
MYANMAR INVESTMENT COMMISSION
No. 1, Thitsar Road, Yankin Township, Yangon

Tel: 01-658130
Fax: 01-658142

Our ref: MIC-5(O)/FI-039/2017(340-A)
Date : 17th July 2017

Subject: Decision of the Myanmar Investment Commission on the proposal for construction and operation of storage tanks, terminals, warehouses and other storage facilities for edible oils and its related products under the name of Wilmar Myanmar Logistics Limited

Reference: Wilmar Myanmar Logistics Limited Letter's dated on 5-4-2017

1. The Myanmar Investment Commission, at its meeting (9/2017) held on 16 June 2017, approved the Permit for investment in construction and operation of storage tanks, terminals, warehouses and other storage facilities for edible oils and its related products under the name of Wilmar Myanmar Logistics Limited submitted by Wilmar Investment Holdings Pte. Ltd. (80%) from the Republic of Singapore and Value Supplies Co., Ltd. (20%) from the Republic of the Union of Myanmar as a Joint Venture investment in accordance with the Myanmar Investment Law and Rules.

2. The terms and conditions of the Permit are stated in the following paragraphs:

(a) The term of the Permit shall be an initial fifty (50) years commencing from the date of the issuance of Permit by Myanmar Investment Commission and extendable for two times ten (10) years with the approval of Myanmar Investment Commission.

(b) The term of the Sub-Lease Agreement for land shall be an initial fifty (50) years commencing from the date of signing of the Lease Agreement between Wilmar Myanmar Port Terminals (Thilawa) Limitd (Lessor) and Wilmar Myanmar Logistics Limited (Lessee) and extendable for two times ten (10) years subject to the approval of Myanmar Investment Commission.

(c) The annual rent for the land shall be US$ 134,000 (United States Dollar one hundred and thirty four thousand only) calculated at the rate of US$ 5.00 per square meter per year of the land measuring 6.622 acres (26,800 square meters). The rate of the rent shall be revised in view of the prevailing land lease rate after every five year period and

the increase of the rent shall not be more than 15% of the preceding annual rent.

(d) Wilmar Myanmar Logistics Limited, which has obtained this Permit to receive benefits relating to the right to use land under Chapter XII and exemptions and reliefs under sections 75, 77 and 78 of the Chapter XVIII of the Myanmar Investment Law, may submit the application form.

(e) Wilmar Myanmar Logistics Limited shall use its best efforts to achieve a timely realization of the work stated in the Permit application.

(f) Wilmar Myanmar Logistics Limited shall obey and respect the responsibilities of investors under section 65 of Myanmar Investment Law and Chapter XX of Myanmar Investment Rules.

(g) Wilmar Myanmar Logistics Limited shall carry out of prevention, mitigation and monitoring of significant environmental impacts according to the type of investment activities in accordance with the relevant laws, rules, regulations and procedures.

(h) Wilmar Myanmar Logistics Limited shall submit to the Commission any transfer of shares or transfer of the business to any person during the investment period in accordance with section 72 of Myanmar Investment Law and rule 191 of Myanmar Investment Rules.

(i) Wilmar Myanmar Logistics Limited which has benefitted from the Permit or exemptions and reliefs shall submit an annual report in the prescribed form to the Commission within three (3) months of the end of the financial year in accordance with rule 196 of Myanmar Investment Rules and shall publish a summary of the report on its website or the Commission's website.

(j) Wilmar Myanmar Logistics Limited must, during the operation period under the permit of the Commission, submit its operating report quarterly in the prescribed form in accordance with rule of Myanmar Investment Rules.

3. Wilmar Myanmar Logistics Limited shall submit (5) copies of all approvals, licences, permits and similar authorizations relevant to the initial implementation of

the investment, the Sub-Lease Agreement and the Joint Venture Agreement to the Commission.

(Kyaw Win)
Chairman

Wilmar Myanmar Logistics Limited

cc:
1. Office of the Union Government of the Republic of the Union of Myanmar
2. Ministry of Home Affairs
3. Ministry of Transport and Communications
4. Ministry of Natural Resources and Environmental Conservation
5. Ministry of Labour, Immigration and Population
6. Ministry of Commerce
7. Ministry of Planning and Finance
8. Central Bank of Myanmar
9. Office of the Yangon Region Government
10. Managing Director, Myanma Port Authority
11. Director General, Department of Environmental Conservation
12. Director General, Directorate of Labour
13. Director General, Directorate of Trade
14. Director General, Internal Revenue Department
15. Director General, Customs Department
16. Director General, Directorate of Investment and Company Administration
17. Director General, National Archives Department

Annex XIII

Land Lease Agreement between Myanma Port Authority and Wilmar Myanmar Port Terminals (Thilawa) Limited dated 21 December 2014 and its Amendment Agreement dated 16 May 2018

LAND LEASE AGREEMENT

For

A Modern Multi-Purpose International Wharf and Integrated Agriculture Processing Facilities and Associated Utility Buildings
at Thilawa Port Area

Between

MYANMA PORT AUTHORITY

And

WILMAR MYANMAR PORT TERMINALS (THILAWA) LIMITED

21st December, 2014

YANGON, MYANMAR

19 DEC 2014

ပြည်ထောင်စု သမ္မတ မြန်မာနိုင်ငံတော် အထူးကပ်တံဆိပ်ခေါင်း 048023 SPECIAL ADHESIVE ၁၀၀၀၀၀ကျပ် K 100000

ပြည်ထောင်စု သမ္မတ မြန်မာနိုင်ငံတော် အထူးကပ်တံဆိပ်ခေါင်း 048022 SPECIAL ADHESIVE ၁၀၀၀၀၀ကျပ် K 100000

19 DEC 2014

ပြည်ထောင်စု သမ္မတ မြန်မာနိုင်ငံတော် အထူးကပ်တံဆိပ်ခေါင်း 048024 SPECIAL ADHESIVE ၁၀၀၀၀၀ကျပ် K 100000

ပြည်ထောင်စု သမ္မတ မြန်မာနိုင်ငံတော် အထူးကပ်တံဆိပ်ခေါင်း 048026 SPECIAL ADHESIVE ၁၀၀၀၀၀ကျပ် K 100000

19 DEC 2014

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ပြည်ထောင်စု သမ္မတ မြန်မာနိုင်ငံတော် အထူးကပ်တံဆိပ်ခေါင်း 048027 SPECIAL ADHESIVE ၁၀၀၀၀၀ကျပ် K 100000

LAND LEASE AGREEMENT

BETWEEN

MYANMA PORT AUTHORITY

AND

WILMAR MYANMAR PORT TERMINALS (THILAWA) LIMITED

19 DEC 2014

This Land Lease Agreement is made at Yangon, the Republic of the Union of Myanmar on this 21st day of December , 2014

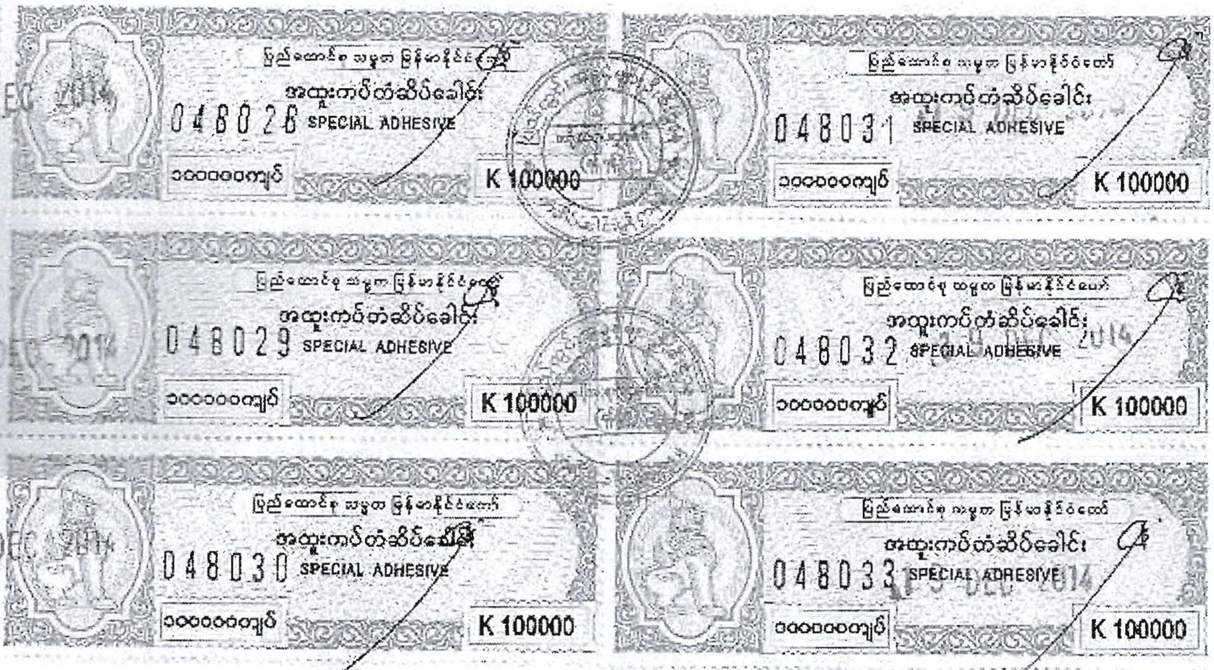
BETWEEN

MYANMA PORT AUTHORITY, an organization existing under the Laws of the Republic of the Union of Myanmar and having its office at 10 Pansodan Street, Kyauktada Township, Yangon 11182 (hereinafter called "**MPA**") (which expression, unless repugnant to the context or the meaning thereof, shall be deemed to include its successors and permitted assigns) represented for the purpose of this Land Lease Agreement by U **Kyaw Myint**, Managing Director, of the one part;

AND

WILMAR MYANMAR PORT TERMINALS (THILAWA) LIMITED, a company incorporated and existing under the laws of the Republic of the Union of Myanmar and having its office at No.SB. 1-2, Aung Zayar Housing Complex, Strand Road, Ahlone Township, Yangon, Myanmar (hereinafter referred to as "**Wilmar**", which expression, unless repugnant to the context or the meaning thereof, shall be deemed to include its successors and permitted assigns) represented by **Mr. Shuichi Sato**, its authorized representative , Japan National ID No. MZ0713970, of the other part,

each hereinafter referred to as "**Party**", and collectively, as "**Parties**".



RECITAL

A. MPA represents and warrants that it is the legal and beneficial owner of all the parcels of land at Yangon Region, Thilawa Port Area plots No. 20 & 21 of 74.1308 acres and the parcel of land of 26 acres adjoining Thilawa Port Area plots No. 21 and 22 with a total area of 100.1308 acres, in the Republic of the Union Myanmar (hereinafter referred to as the "Land") more particularly described in the Schedule to this Land Lease Agreement.

B. Pursuant to the Build-Operate-Transfer Contract executed by and between MPA and Wilmar of the same date (the "**BOT Contract**"), Wilmar desires to lease the Land, and MPA has agreed to lease the Land to Wilmar, for a period of 50 (fifty) years, on the terms and conditions hereto. The lease period shall be for an initial term of 50 (fifty) years commencing from (i) the completion of the construction of the Project, (ii) 3 (three) years after Wilmar takes vacant possession of the Land, or (iii) the date on which Wilmar commences commercial operation of the Project, whichever is earliest. The Parties may extend the lease period for 2 (two) further 10 (ten) year terms with the approval of Myanmar Investment Commission on existing terms and conditions.

C. The Land is leased to Wilmar to enable Wilmar to develop a part thereof ("**Development Land**") according to the BOT Contract which in turn will be sub-leased to investors for the conduct of commercial activities such as the operation of cogeneration power plants, fertilizer mills, flour mills, oilseeds crushing, edible oils refining, sugar, specialty fats, grains processing, the packaging and sale of consumer pack edible oils, rice, flour and grains (hereinafter referred to as "**Commercial Activities**") provided that each such sub-lease shall be submitted and approved by the Myanmar Investment Commission ("**MIC**") and consented to by the MPA; and to build and operate a Modern Multi-Purpose International Wharf (hereinafter referred to as the "**Port Terminal**") and associated utility buildings, offices equipment servicing and repair facilities, customs inspection enclosure and/or any and all other facilities incidental to the Port Terminal on the balance area of the



Land ("**Port Land**"); and the foregoing shall collectively hereinafter be referred to as "**the Project**".

NOW, THEREFORE, this Land Lease Agreement is entered into upon the mutual covenants and considerations as follows:

1. THE LEASE OF THE LAND

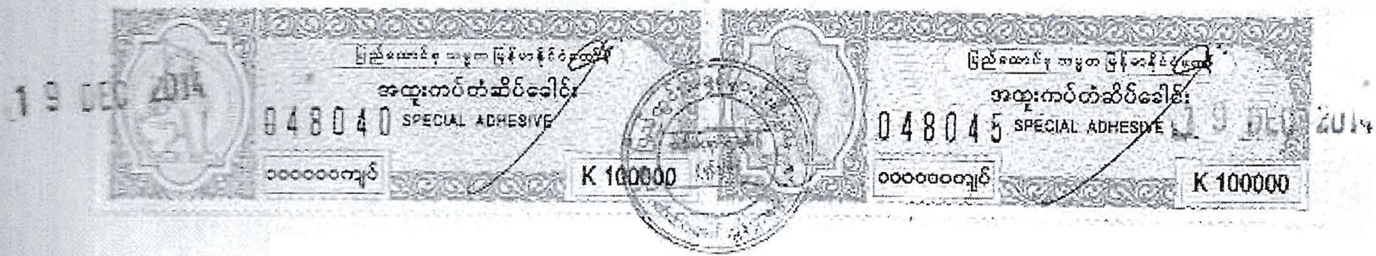
In consideration of the payment of the Land Use Premium and Annual Rent being paid for the Land, MPA hereby grants unto Wilmar a lease for an initial term of 50 (fifty) years, and (with the approval of the Myanmar Investment Commission) for an additional 2 (two) further 10 (ten) years terms on existing terms and conditions for a total term of 70 (seventy) years, commencing from (i) the completion of the construction of the Project, (ii) the date falling 3 (three) years after Wilmar takes vacant possession of the Land, or (iii) the date on which Wilmar commences commercial operation of the Project, whichever is the earliest, subject to the prior fulfillment of the conditions precedent in Clause 15.

2. LAND USE PREMIUM

Wilmar shall pay a "Land Use Premium" for the Land at the rate of United States Dollars US$10.00 (United States Dollars Ten) per square metre (for the total area of the Land of 100.1308 acres (equivalent to 405,229.3476 m^2, based on 1 acre = 4,047 m^2)) to MPA in consideration of the covenants between Wilmar and MPA herein and in the BOT Contract. The Land Use Premium valued at US$4,052,293.48 (United States Dollars Four Million Fifty-two Thousand Two Hundred Ninety-three and cents Forty-Eight) shall be paid as follows: -

(a) The 1st installment of 10% (ten percent) of the Land Use Premium of US$405,229.36 (United States Dollars Four Hundred and Five Thousand, Two Hundred and Twenty-nine and cents Thirty-six) shall be paid within 30 (thirty) days after the signing of this Land Lease Agreement.

(b) The 2nd installment of 30% (thirty percent) of the Land Use Premium of US$ 1,215,688.04 (United States Dollars One Million Two Hundred and Fifteen Thousand



and Six Hundred and Eighty-eight and cents Four) shall be paid on the 1st anniversary of the date of this Land Lease Agreement, provided that MPA has provided vacant possession of the Land to Wilmar free of all encumbrances, liens and claims of any kind whatsoever as stipulated under Clause 15.2 and Wilmar has commenced commercial operation of the Project.

(c) The 3rd installment of 30% (thirty percent) of the Land Use Premium of US$ 1,215,688.04 (United States Dollars One Million Two Hundred and Fifteen Thousand and Six Hundred and Eighty-eight and cents Four) shall be paid on the 2nd anniversary of the date of this Land Lease Agreement provided that Wilmar has already paid the 2nd installment of 30 % (thirty percent) of the Land Use Premium.

(d) The 4th installment of 30% (thirty percent) of the Land Use Premium of US$ 1,215,688.04 (United States Dollars One Million Two Hundred and Fifteen Thousand and Six Hundred and Eighty-eight and cents Four) shall be paid on the 3rd anniversary of the date of this Land Lease Agreement provided that Wilmar has already paid the 3rd installment of 30% (thirty percent) of the Land Use Premium.

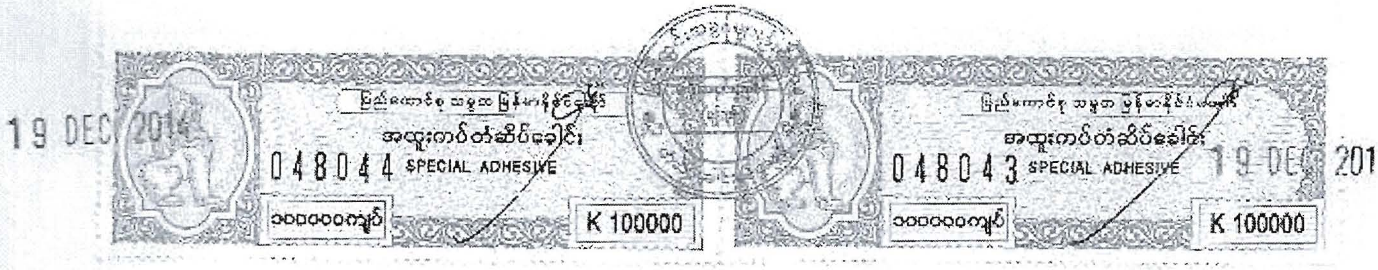
3. **ANNUAL RENT**

3.1 For the Land, Wilmar shall pay the annual rent (**"Annual Rent"**) from the date on which Wilmar generates revenue from the Project, and the Annual Rent shall be calculated as follows:

Year of Operation	**Payment**
(a) From 1st to 10th year	6% of total Gross Revenue
(b) From 11th to 20th year	12% of total Gross Revenue
(c) From 21st to 35th year	18% of total Gross Revenue
(d) From 36th year onwards	20% of total Gross Revenue

Gross Revenue shall be calculated in accordance with **<u>Annex 3</u>** of the BOT Contract.

3.2 An advance payment of Annual Rent for any financial year ("Relevant Financial Year") shall be paid no later than 30th April of the financial year following the



Relevant Financial Year. Such advance shall be determined on the basis of Gross Revenue as per the unaudited financial statements of Wilmar for the Relevant Financial Year.

A final settlement of the Annual Rent shall be made after the close of the Relevant Financial Year based on the audited financial statements for the Relevant Financial Year no later than 31st August after the close of the Relevant Financial Year.

4. RIGHTS AND OBLIGATIONS OF WILMAR

Wilmar hereby covenants with the MPA for the following:-

(a) Wilmar shall pay the Annual Rent on the days and in the manner herein before appointed for payment thereof and to pay for all reasonable standard charges to be collected by the respective authorities with respect to any services provided.

(b) Wilmar shall utilize the Land for the purpose of land development for sub-leasing to investors as defined in the BOT Contract for the conduct of Commercial Activities and for the establishment of the Port Terminal provided such sub-lease have been submitted and approved by the MIC and consented to by the MPA.

(c) Wilmar shall be responsible for protection as well as preservation of the environment of the Land in accordance with the prevailing environmental laws of the Republic of the Union of Myanmar, and shall not cause pollution of air, water and land and not to cause any environmental degradation. Wilmar shall also take necessary measures in order to fulfill its environmental protection obligations with respect to the waste water treatment plant and other treatment procedures so as to keep the Project site compliant with the environmental laws of the Republic of the Union of Myanmar.

(d) Wilmar shall be responsible for the payment of all stamp duties which may arise from the signing of this Land Lease Agreement and for the payment of taxes of any and of all kinds which may arise from constructing, operating and managing the Port Terminal.

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19 DEC 2014

(e) Wilmar is forbidden to substantially alter the purpose of this Land Lease Agreement or the installations erected on the Land as per the stipulations of **Annex 2** of the BOT Contract without the prior written permission of MPA which shall not be unreasonably withheld.

(f) Wilmar shall have the right to sub-lease the Development Land to investors as defined in the BOT Contract for them to carry out any of the Commercial Activities provided such sub-lease have been submitted and approved by the MIC and consented to by the MPA.

(g) Wilmar and/or the subsidiary and affiliate companies of Wilmar International Limited shall have the right to sub-lease the Development Land from Wilmar as investors as defined in the BOT Contract to invest and carry out any of the Commercial Activities provided such sub-lease have been submitted and approved by the MIC and consented to by the MPA.

5. **RIGHTS AND OBLIGATIONS OF MPA**

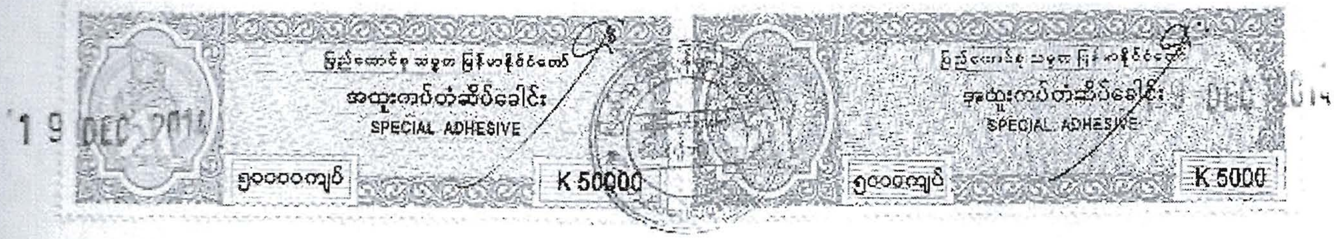
Upon Wilmar performing and observing the covenants, conditions and agreements contained herein, MPA hereby covenants with Wilmar as follows:

(a) MPA shall provide vacant possession of the Land to Wilmar free of all encumbrances, liens and claims of any kind whatsoever;

(b) MPA will ensure that adequate infrastructure is available for container and general cargo, liquid cargo and container movement in, into and from the Port Land and in the Port Terminal's vicinity;

(c) MPA shall pay all land revenues imposed on the Land;

(d) MPA shall allow Wilmar to sub-lease the Development Land to investors as defined in the BOT Contract for them to carry out any of the Commercial Activities provided such sub-lease have been submitted and approved by the MIC and consented to by the MPA;



(e) MPA shall ensure that Wilmar shall peacefully and quietly hold the Land during the term of this lease without any interruption or disturbance whatsoever by MPA or any other person.

(f) MPA shall use its best endeavours to obtain facilities needed for the establishment of freight station(s) including but not limited to Custom and Immigration check points, bonded warehouses, customs clearance facilities and the like; and

(g) MPA shall use its best endeavours to ensure the availability, adequacy and suitability of access roads, power supply, water supply and telecommunication facilities right up to the border of the Land for Wilmar to expeditiously implement the Project and for the investors as defined in the BOT Contract, to expeditiously carry out their respective Commercial Activities

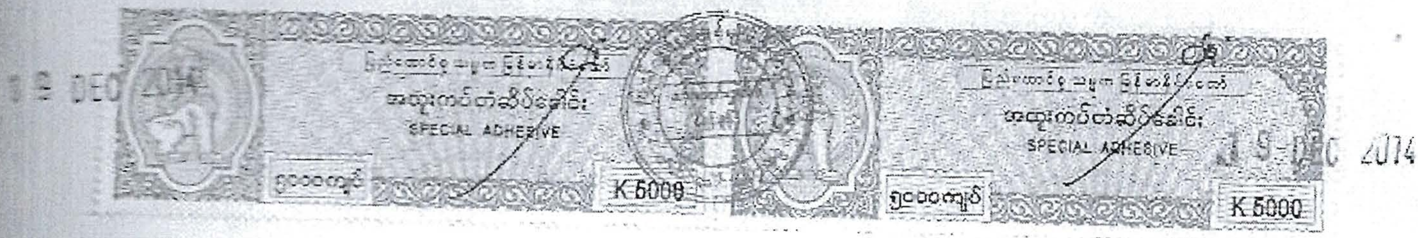
(h) MPA shall arrange for the cost of compensation or relocation (if any) of the existing tenants, licensees, occupiers of the Land in co-ordination with Wilmar.

6. **RENEGOTIATION OF THIS LAND LEASE AGREEMENT**

In the event of any situation or condition arising due to circumstances not envisaged in either this Land Lease Agreement or the BOT Contract which warrants an amendment or modification to these documents, the Parties shall negotiate the appropriate amendments, modifications or additions in good faith and submit these amendments to the Myanmar Investment Commission for approval.

7. **LAW OF PERFORMANCE**

Both Parties shall carry out their obligations arising out of this Land Lease Agreement according to the laws, rules, regulations, directives and procedures of the Republic of the Union of Myanmar.



8. **WARRANTY AND REPRESENTATION**

Each Party represents and warrants to the other that it is a legal entity duly authorized under the relevant laws and has the right, power, sound financial standing and authority to enter into this Land Lease Agreement.

9. **RIGHT OF RE-ENTRY**

If Wilmar in any substantial respect fails to perform or observe the terms and conditions of this Land Lease Agreement and fails to rectify such non-performance or non-observation within 3 (three) months after the notice in writing from the MPA of such default, the MPA shall be at liberty to re-enter upon and take possession of the whole complex of the Land and factory buildings and this Land Lease Agreement shall, thereupon, cease and determine, provided that such right of re-entry shall not prejudice any right of action of the MPA for recovery of money from Wilmar by way of rent or compensation for damages.

10. **TERMINATION OF THIS LAND LEASE AGREEMENT**

This Land Lease Agreement may only be terminated on one of the following grounds:-

10.1 breach of a material term of this Land Lease Agreement by one of the Parties, which if can be remedied, is not remedied within 3 (three) months from the date of notice by the non-breaching Party to the breaching Party of such breach and request to remedy;

10.2 occurrence of Force Majeure for a continuous period of more than 6 (six) months;

10.3 incapability of implementing the original aims and objectives of this Land Lease Agreement; or

10.4 by mutual consent provided that both Parties shall jointly submit an application for the termination of this Land Lease Agreement to the Myanmar Investment Commission in accordance with the Republic of the Union of Myanmar Foreign Investment Law.

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11. MINERAL RESOURCES AND TREASURES

Mineral resources, treasure, gems and other natural resources discovered unexpectedly from, in or under the Land during the lease period of this Land Lease Agreement shall be the property to the Government of the Republic of the Union of Myanmar and the Government of the Republic of the Union of Myanmar shall be at liberty to excavate the aforesaid at any time.

12. FORCE MAJEURE

12.1 If either Party is temporarily rendered unable, wholly or in part, by Force Majeure to perform its duties or accept performance by the other Party under this Land Lease Agreement, it is agreed that the affected Party shall give notice to the other Party within 14 (fourteen) days of the occurrence of the cause relied upon giving full particulars of such Force Majeure.

12.2 The duties of such Party as are affected by such Force Majeure shall, with the approval of the other Party be suspended during the period of disability so caused, but for no longer period, and such cause shall be removed with all reasonable dispatch.

12.3 The term "Force Majeure" as employed herein shall mean Act of God, Strikes, Lockouts, Industrial Disturbances, War, Blockades, Insurrections, Riots, Epidemics, Civil Disturbances, Explosions, Fire, Floods, Tsunamis, Earthquakes, Storms, Lightning and any other causes similar to the kind herein enumerated which are beyond the control of either Party and which by the exercise of due care and diligence either Party is unable to overcome.

13. NEW BUSINESS OPPORTUNITIES

If further expansion of the Port Terminal is required, Wilmar shall be given the opportunity to compete with other bidders for all further berths in the Thilawa port area.



14. **ASSIGNMENT**

Wilmar will, with the approval of the MIC, have the right to transfer by deed of assignment all of its rights and obligations under this Land Lease Agreement to any group company of Wilmar which is subsequently established in Myanmar for purposes of undertaking the Project ("transferee") and on such transfer being notified to MPA, MPA will be deemed to have accepted the transferee as being entitled to all rights and responsible for all obligations under this Contract, in place of Wilmar.

15. **CONDITIONS PRECEDENT**

15.1 This Land Lease Agreement is conditional upon receipt of all necessary and requisite approvals, from the relevant government authorities of the Republic of the Union of Myanmar for the implementation of this Land Lease Agreement.

15.2 MPA shall provide vacant possession of the Land free of all encumbrances, liens and claims of any kind whatsoever.

16. **INTERPRETATION**

All the recitals and all schedules and annexures to this Land Lease Agreement shall be taken, read and construed as an integral part of this Land Lease Agreement.

17. **EFFECTIVE DATE OF THIS LAND LEASE AGREEMENT**

17.1 This Land Lease Agreement shall take effect from the date of the signing and the initial term of 50 (fifty) years commencing from (i) the completion of the construction of the Project, (ii) 3 (three) years after Wilmar takes vacant possession of the Land, or (iii) the date on which Wilmar commences commercial operation of the Project, whichever is earliest.

17.2 The Parties may extend the lease period for 2 (two) further 10 (ten) year terms with the approval of MIC on existing terms and conditions.

18. RE-TRANSFER OF THE LAND

18.1 At the end of the lease period, Wilmar shall transfer the Land and immoveable properties thereon to MPA within 6 (six) months in good condition, fair wear and tear excepted and ground damages having been refilled or repaired,

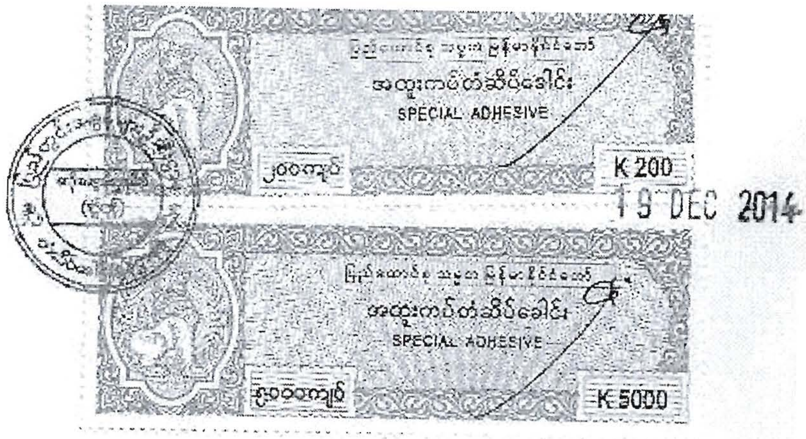
18.2 Wilmar shall have the right to be in possession and ownership of all moveable properties on the Land at the end of the lease period which shall be removed at Wilmar's costs and/or disposed of within 6 (six) months of the end of the lease period, and the foregoing shall not affect MPA's right to claim for the annual rent for the period that Wilmar continues to occupy the Land with the MPA's approval for the purpose of refilling/repairing any damage caused to the Land by Wilmar, up to the date of complete evacuation of the Land by Wilmar.

19. ENTIRE AGREEMENT

This Land Lease Agreement and the agreements referred to herein embody all the terms and conditions agreed upon between the Parties hereto as to the subject matter of this Land Lease Agreement and supersede and cancel in all respects all previous agreements and understandings between the Parties hereto with respect to the subject matter hereof whether such be written or oral.

20. GOVERNING LAW AND JURISDICTION

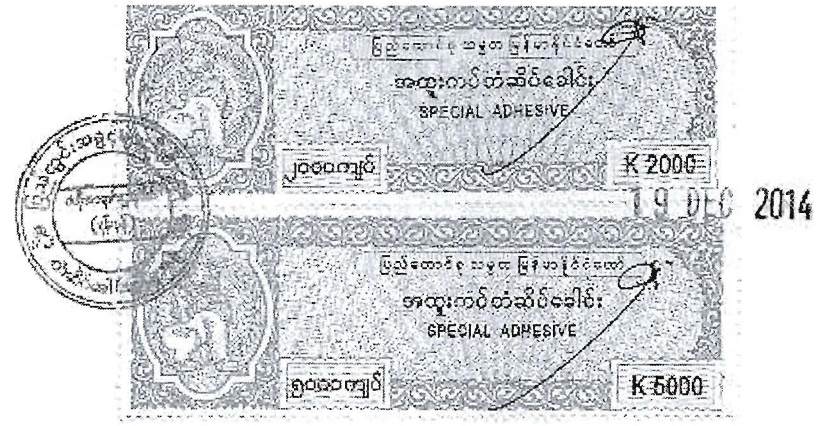
This Land Lease Agreement shall be read, construed, interpreted and governed in all respects by the laws, rules and regulations of the Republic of the Union of Myanmar and the Parties hereby submit to the jurisdiction of the relevant court of the Republic of the Union of Myanmar and all courts competent to hear appeals therefrom.



21. **ARBITRATION**

21.1 Any dispute arising between the Parties out of or in connection with this Land Lease Agreement shall first be settled through negotiations done in good faith with a view to reaching an amicable settlement.

21.2 In the event that the dispute mentioned above cannot be settled amicably, such dispute shall be settled by UNCITRAL ARBITRATION RULES in Kuala Lumpur. The process shall be conducted in the English language.

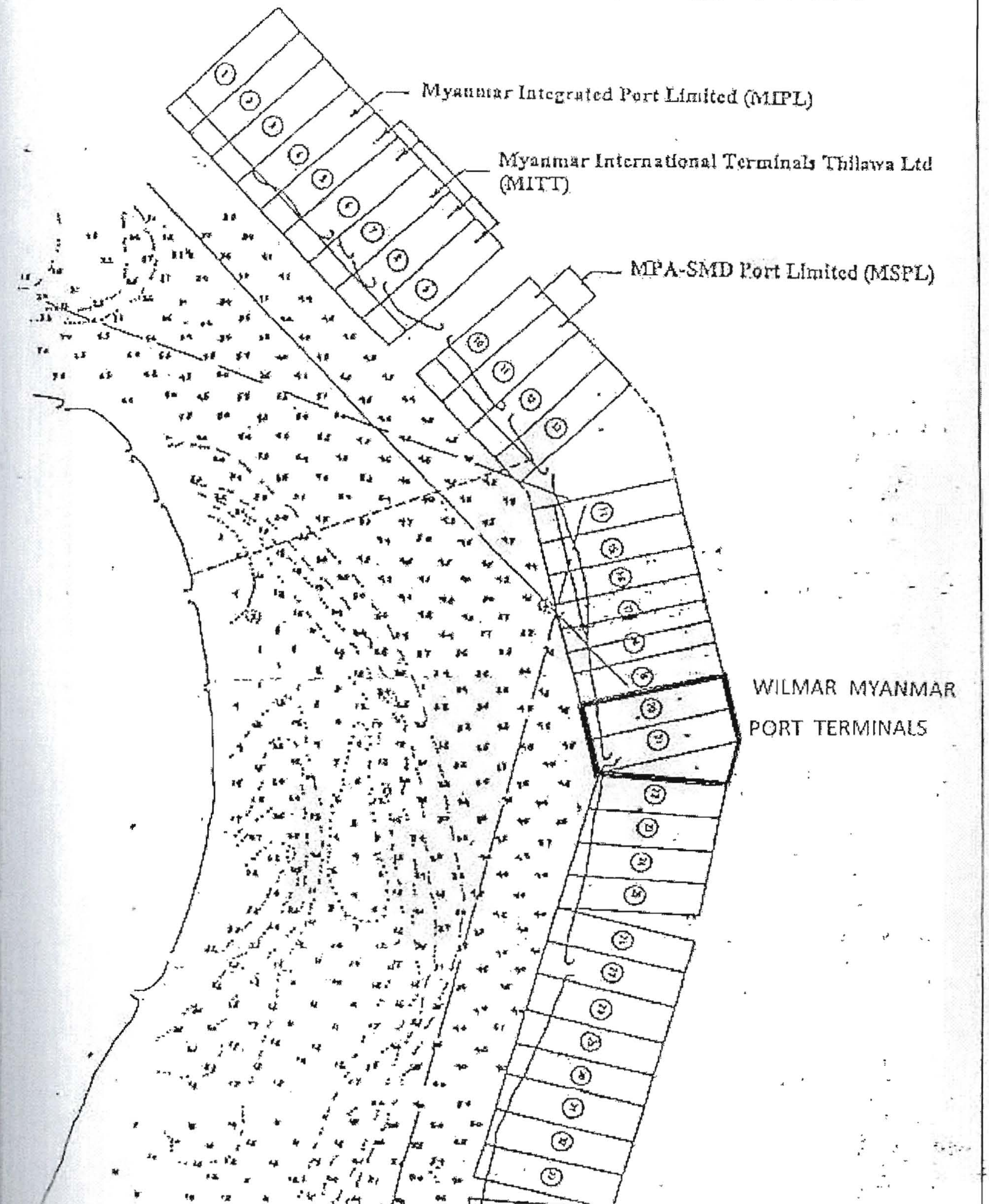


IN WITNESS WHEREOF the Parties hereto have set their respective hands and affixed their seals the day, month and year first written above.

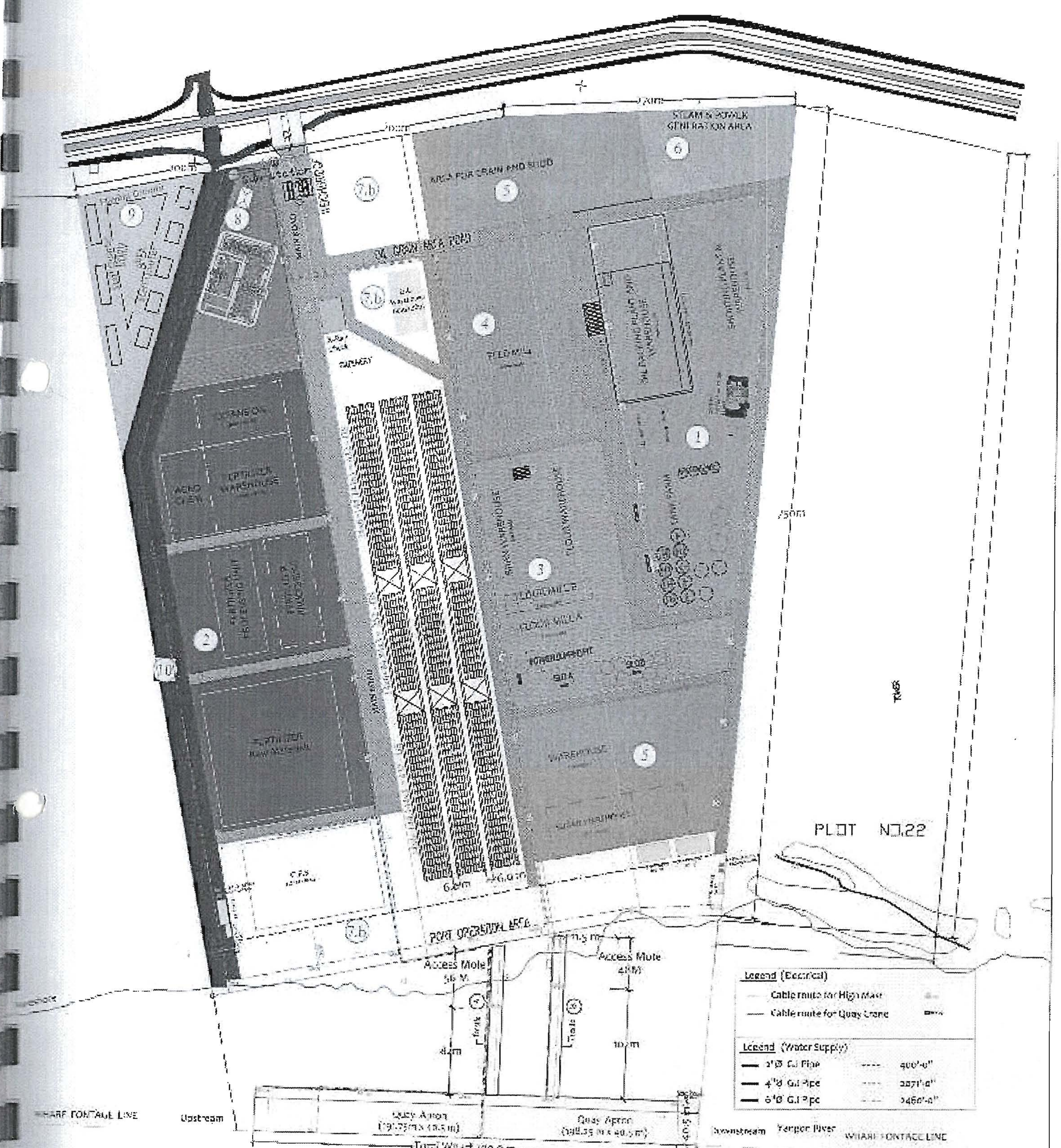
For and on behalf of **MYANMA PORT AUTHORITY**	For and on behalf of **WILMAR MYANMAR PORT TERMINALS (THILAWA) LIMITED**
Signed by : Kyaw Myint Designation : Managing Director	Signed by : **Mr. Shuichi Sato** Designation : Authorised Signatory
<u>WITNESS</u> For and on behalf of **MYANMA PORT AUTHORITY**	<u>WITNESS</u> For and on behalf of **WILMAR MYANMAR PORT TERMINALS (THILAWA) LIMITED**
Signed by : Ni Aung Designation : General Manager	Signed by : Maung Kyay Designation : Director **WILMAR MYANMAR PORT TERMINALS (THILAWA) LIMITED**

THE SCHEDULE
THE LAND

သီလဝါဆိပ်ကမ်း ဖွံ့ဖြိုးရေးစီမံကိန်း တည်နေရာပြပုံ



PLAN LAYOUT OF PORT TERMINAL & INDUSTIRAL DEVELOPMENT IN THILAWA PLOTS (20&21) BETWEEN PLOT (21 & 22)



	Oil Tank Farm & Refinery Area	----	[illegible] Acres
	Fertilizer Processing Area	----	14.45 Acres
	Flour Mill & Warehouse Area	-	9.05 Acres
	Feed Mill & Warehouse Area	-	5.45 Acres
	Food Stuff & Ware House Area (Future Food	----	10.95 Acres
	A. Industrial Sub-Total Area	--	45.00 Acres

Plot 6	Steam Power & Generator		7.12 Acres
Plot-8	Office & Car Parking Area	----	5.66 Acres
Plot-9	Staff Housing Area		4.85 Acres
Plot 10	Diversion Channel Area		5.17 Acres
Plot-11	All Compound Road Area	----	13.54 Acres
	C. Infrastructure Sub Total Area	----	29.74 Acres

Plot-7.a	Container Yard Area	----	12.46 Acres
Plot-7.b	Port Facilities Area	----	[illegible] Acres
	B. Port Backup Area		25.39 Acres

A. Industrial Sub Total Area		45.00 Acres
C. Infrastructure, Sub Total Area	----	29.74 Acres
B. Port Backup Area		25.39 Acres
Total Area	----	100.13 Acres

AMENDMENT AGREEMENT

TO THE LAND LEASE AGREEMENT

For

A Modern Multi-Purpose International Wharf and Integrated Agriculture Processing Facilities and Associated Utility Buildings

at Thilawa Port Area

Between

MYANMA PORT AUTHORITY

And

WILMAR Myanmar Port Terminals (Thilawa) Ltd.

May, 2018

YANGON, MYANMAR

AMENDMENT AGREEMENT
TO THE LAND LEASE AGREEMENT

BETWEEN

MYANMA PORT AUTHORITY

AND

WILMAR MYANMAR PORT TERMINALS (THILAWA) LIMITED

THIS AMENDMENT AGREEMENT is made at Yangon, the Republic of the Union of Myanmar on this 16th day May, 2018

BETWEEN

MYANMA PORT AUTHORITY, an organisation existing under the Laws of the Republic of the Union of Myanmar and having its office at 10 Pansodan Street, Kyauktada Township, Yangon 11182 (hereinafter called "**MPA**") (which expression, unless repugnant to the context or the meaning thereof, shall be deemed to include its successors and permitted assigns) represented for the purpose of this Amendment Agreement by **U Ni Aung**, Managing Director, of the one part;

AND

WILMAR MYANMAR PORT TERMINALS (THILAWA) LIMITED, a company incorporated and existing under the laws of the Republic of the Union of Myanmar and having its registered office at Plot No. 20 & 21, Thilawa Development Zone, Kyauktan Township, Yangon, Myanmar (hereinafter referred to as "**Wilmar**", which expression, unless repugnant to the context or the meaning thereof, shall be deemed to include its successors and permitted assigns) represented by **Mr. Sun DeHai**, its authorised representative and Managing Director, Chinese National ID No. G55016533, of the other part,

each hereinafter referred to as "**Party**" and collectively, as "**Parties**".

RECITAL

A. The MPA and Wilmar entered into a Land Lease Agreement on 21 December 2014 (the "**Land Lease Agreement**") for the purposes of building and operating a Modern Multi-Purpose International Wharf (hereinafter referred to as the "**Port Terminal**") and integrated agriculture processing facilities and associated utility buildings, on the terms and conditions thereof.

B. Recital C of the Land Lease Agreement states that The Land is leased to Wilmar to enable to develop a part thereof ("**Development Land**") according to the BOT Contract which in turn will be sub-leased to investors for the conduct of commercial activities such as the operation of cogeneration power plants, fertilizer mills, flour mills, oilseeds crushing, edible oils refining, sugar, specialty fats, grains processing, the packaging and sales of consumer pack edible oils, rice, flour and grains (hereinafter referred to as "**Commercial Activities**") provided that each such sub-lease shall be submitted and approved by the Myanmar Investment Commission ("**MIC**") and consented by the MPA; and to build and operate a Modern Multi-Purpose International Wharf (hereinafter referred to as the "**Port Terminals**") and associated utility buildings, offices equipment servicing and repair facilities, customs inspection enclosure and/or any and all other facilities incidental to Port Terminal on the balance area of the Land ("**Port Land**"); and the foregoing shall collectively hereinafter be referred to as "the Project".

C. Subject to the approval of the MIC [given under Permit no. 003/2017 dated 17th July 2017 which is attached as **Annex-A**], Wilmar is seeking to lease a portion of the Development Land to a company to be named "Wilmar Myanmar Logistics Limited" ("**WMLL**"), which will be a part of the Wilmar group of companies, to carry on the following business:

"Construction and operation of storage tanks, terminals, warehouses and other storage facilities for edible oils and its related products";

D. In addition to the foregoing, Wilmar may in the future consider subleasing a part of the Development Land to third party investors where such subleasing is in alignment with Wilmar's strategic plans for the development of the Development Land, enhances the Commercial Activities undertaken and complies with applicable Myanmar law. The ability to sublease to third party investors will broaden the pool of investors and allow Wilmar to identify and select businesses that will enhance Commercial Activities that are already being carried on. For the avoidance of doubt, Wilmar will as the lessee to the MPA continue to be solely responsible to the MPA under the BOT Contract

and the Lease Agreement, and the MPA will not be adversely affected under the BOT Contract and Lease Agreement by the ability of Wilmar to sublease to third party investors.

E. Accordingly, the Parties wish to amend the Land Lease Agreement pursuant and subject to the terms of this Amendment Agreement.

Now this Amendment Agreement is entered into upon the mutual covenants and consideration as follows:-

1. **DEFINITIONS & INTERPRETATION**

In this Amendment Agreement:-

1.1 Save where expressly provided for otherwise, words and expressions defined in the Land Lease Agreement have the same meanings when used in this Amendment Agreement.

1.2 Unless the context otherwise requires, words importing the singular shall also include the plural and vice versa and references to persons shall include bodies corporate.

1.3 The headings and sub-headings in this Amendment Agreement are for convenience of reference only and shall not affect the interpretation thereof.

1.4 All the Recitals and annexures to this Amendment Agreement, shall be taken, read and construed as an integral part of this Amendment Agreement.

1.5 All references to clauses, recitals and annexures are reference to clauses, recitals and annexures in this Amendment Agreement.

2. **AMENDMENTS**

2.1 The words and expressions mentioned in Recital C of the Land Lease Agreement shall be deleted and substituted as follows:-

"C. The Land is leased to Wilmar to enable Wilmar to develop a part thereof ("**Development Land**") according to the BOT Contract which in turn will be sub-leased to investors for the conduct of commercial activities such as the operation of cogeneration power plants, the operation of fertilizer mills, flour mills, oilseeds crushing, edible oils refining and construction and operation of storage tanks, terminals, warehouses and other storage facilities for edible oils and its related products, sugar, specialty fats,

grains processing, the packaging and sale of consumer pack edible oils, rice, flour and grains (hereinafter referred to as "**Commercial Activities**") provided that each such sub-lease shall be submitted and approved by the Myanmar Investment Commission ("**MIC**") and consented by the MPA; and to build and operate a Modern Multi-Purpose International Wharf (hereinafter referred to as the "**Port Terminals**") and associated utility buildings, offices equipment servicing and repair facilities, customs inspection enclosure and/or any and all other facilities incidental to Port Terminal on the balance area of the Land ("**Port Land**"); and the foregoing shall collectively hereinafter be referred to as "the Project"."

2.2 The words and expressions mentioned in Clause 4(g) of the Land Lease Agreement shall be deleted and substituted as follows:-

"(g) Wilmar and/or the subsidiary and affiliate companies of Wilmar International Limited and/or any third party entities shall have the right to sub-lease the Development Land from Wilmar as "Investors" (as defined in the BOT Contract) to invest and carry out any of the Commercial Activities, provided such sub-lease has been submitted and approved by the MIC and consented to by the MPA."

3. **GOVERNING LAW AND JURISDICTION**

This Amendment Agreement shall be read, construed, interpreted and governed in all respects by the laws, rules and regulations of the Republic of the Union of Myanmar and the Parties hereby submit to the jurisdiction of the relevant court of the Republic of the Union of Myanmar and all courts competent to hear appeals therefrom.

4. **ADDRESS FOR CORRESPONDENCE**

All correspondence exchanged between the Parties shall be sent to:-

Myanma Port Authority

No.10, Pansodan Street, Kyauktada Township,
Yangon, The Republic of the Union of Myanmar
Telephone: 95-1-246781, 379141, 379142,
Facsimile: 95-1-246781, 391355, 256321
To the attention of the: Managing Director

and

Wilmar Myanmar Port Terminals (Thilawa) Limited

No.10, Myamarlar Street, Thaketa Industrial Zone,
Thaketa Township, Yangon, The Republic of the Union of Myanmar
Telephone: 95-9-33162666
To the attention of: The Group Legal Counsel

5. Other contents and clauses of the Land Lease Agreement not mentioned herein shall remain effective and be unchanged, exception of otherwise agreed by the Parties in written.

6. This Amendment Agreement is an integral part of the Land Lease Agreement and has the same applicable law and jurisdiction as the Land Lease Agreement.

7. This Amendment Agreement shall take effect from the date of signing mentioned above until terminating the validity of the Land Lease Agreement exception of otherwise agreed by the Parties.

IN WITNESS WHEREOF the Parties hereto have set their respective hands and affixed their seals the day, month and year first written above.

For and on behalf of

MYANMA PORT AUTHORITY

Signed by : Ni Aung
Designation : Managing Director

Witness

For and on behalf of

MYANMA PORT AUTHORITY

Signed by : Thet Tun
Designation : General Manager

For and on behalf of

WILMAR MYANMAR PORT TERMINALS (THILAWA) LIMITED

Wilmar Myanmar Port Terminals (Thilawa) Ltd

Signed by : Sun DeHai
Designation : Managing Director

Witness

For and on behalf of

WILMAR MYANMAR PORT TERMINALS (THILAWA) LIMITED

Signed by : Sim Kian Thiam
Designation : Chief Financial Controller

Annex XIV

Sub-Lease Agreement (Draft)

SUB-LEASE AGREEMENT

YANGON

REPUBLIC OF THE UNION OF MYANMAR

Sub-Lease Agreement

This Sub-Lease Agreement (hereinafter referred to as the "Agreement") is made at ________________________, on the _______day of ______________________, 2018.

between;

1. **Wilmar Myanmar Port Terminals (Thilawa) Limited** (hereinafter referred to as the "Lessor") on the one part.

and,

2. **Wilmar Myanmar Riceland Limited** (hereinafter referred to as the "Lessee") on the other part;

(The Lessor and the Lessee are hereinafter jointly referred to as the "Parties", including any successors by law to replace the "Parties" independently referred to as the "Party".)

NOW, HEREBY MUTUALLY AGREES AS FOLLOWS;

Chapter 1. The Scope of this Agreement

Clause 1. **1.1** The Lessor agrees to lease, and the Lessee agrees to take on the lease of the land at **Yangon Region, Thilawa Port Area, Plot No. 20 & 21** of 74.1308 acres and the parcel of land of 26 acres adjoining Thilawa Port Area plot no. 21 and 22 according to the plan attached hereto as **Exhibit A** which is deemed as an integral part hereof with the total area of **121,406 square-metres** (equivalent to approximately **30 acres**) (hereinafter referred to as the "Demised Premises") for an initial 50 (fifty) year period commencing **from the issuing date of the Physical Delivery Receipt** pursuant to Clause 1.2 below and ending on the date [•] (hereinafter referred to as the "Lease Period") unless sooner terminated under the provisions of Clause 20.1. The Parties may (with the approval of the Myanmar Investment Commission ("MIC")) extend the Lease Period for an additional 2 (two) further 10 (ten) years terms on existing terms and conditions for a total lease period of 70 (seventy) years, and if so, the term "Lease Period" shall be construed accordingly to include such additional 10 (ten) year term(s) PROVIDED ALWAYS that the Lease Period shall not extend beyond the lease period set out in the Land Lease Agreement dated 21st December 2014 as amended by Amendment Agreement to the Land Lease Agreement dated 16th May 2018 between the Myanma Port Authority, as the head lessor of the Demised Premises, and the Lessor, which is the Lessee of the Demised Premise under the said Land Lease Agreement.

1.2 Subject to the issue of the Lessee's MIC's permit, the Demised Premises shall be delivered to the Lessee by issuing of a Physical Delivery Receipt by the Lessor provided that the Lessor has confirmed that the Lessee has satisfied all of its obligations stipulated within this Agreement.

1.3 Any costs and expenses relating to the execution of this Agreement and of the Lessee's business on the Demised Premises, including for the avoidance of doubt stamp duties and commercial tax, shall be borne by the Lessee.

Chapter 2.   Warranty and Representation

Clause 2. Each Party represents and warrants to the other Party that it is a legal person duly authorised under the relevant laws and has the right power, sound financial standing and authority to enter this Agreement.

Chapter 3.   Annual Land Rent and Other Fees

Clause 3. **3.1** In addition to the above consideration, the Lessee shall pay the annual land rent (hereinafter referred to as the "Land Rent") on yearly basis at the rate of US$5.00 (United States Dollars Five) per year per one square metre, i.e US$607,030/- (United States Dollars Six Hundred and Seven Thousand and Thirty only) stipulated in Clause 1 herewith as well as the management fees and utility charges (hereinafter collectively referred to as the "Fees"). The Lessee shall pay the Land Rent to the Lessor each year not later than the 15th day of December of the preceding year.

3.2 Notwithstanding Clause 3.1, if the whole or any part of the Demised Premises shall at any time be destroyed or damaged by fire, flood, storm or tempest so as to become unfit for occupation and use by the Lessee, the Land Rent and Fees or a fair and just proportion of the Land Rent and Fees according to the nature and extent of the damage sustained may be suspended and cease to be payable from the date on which the whole or any part of the Demised Premises was so destroyed or damaged until the date on which the Demised Premises shall be rendered fit for the occupation and use of the Lessee.

Clause 4. The Lessee hereby acknowledges and accepts the right of the Lessor to review and change the rate of the Land Rent at the end every 5 (five) year period at a rate of no more than 15% (Fifteen percent) of the previous rate.

Clause 5. **5.1** Whenever the cadastral surveying has been done and found that there is a change of area of the Demised Premises which does not conform to the area as stipulated in this Agreement, the Lessor shall inform the Lessee thereof to pay and the Lessee agrees to pay the new amount of the Land Rent and the Fees, based on the adjusted area of the Demised Premises from the subsequent date of such notification.

5.2 The Lessee and the Lessor agree that the Land Rent and the Fees for the adjusted part of Demised Premises, for the period from the commencement date of the Lease Period to the date of the notification by the Lessor to the Lessee pursuant to Clause 5.1, shall not be payable (if the Demised Premises has increased) or reimbursed (if the Demised Premises has decreased).

Chapter 4. Event of Default

Clause 6. If at any time and for any reason, the Lessee defaults in any payment of the Land Rent and the Fees, the Lessee agrees to pay the Lessor default interest at the rate of 2.0% (two percent) per year for the unpaid portion of the Land Rent and the Fees, as the case may be, until the date on which the payment is actually remitted and credited to the bank account of the Lessor.

Chapter 5. Ownership of facilities and materials and the Lessee's Duties

Clause 7. All facilities and materials (which expression includes but not limited to the Lessee's fixtures, fittings, furniture, furnishings, equipment, machinery, stock in trade, partitions, lightings, floor coverings and ceiling boards) on the Demised Premises brought by the Lessee shall belong to the Lessee (hereunder referred to as the "Lessee's Properties").

Clause 8. The Lessor acknowledges that the Lessee's Properties except immovable assets may be mortgaged, pledged, or guaranteed against the Lessee's debt with financial institutions or any third parties. The lease right granted to the Lessee under this Agreement shall not be mortgaged, pledged or guaranteed for any purpose no matter whatsoever reasons or at any event.

Clause 9. The Lessee shall not, save with the Lessor's prior written consent, assign or transfer the right to lease the Demised Premises to other persons nor transfer to other person, in whole or in part, its rights or obligations hereunder nor do anything to endanger the Lessor's rights to the Demised Premises nor sublease the Demised Premises.

Clause 10. **10.1** The Lessee shall strictly comply with the laws, rules, and regulations of the government and local authorities and observe the order of the Lessor or the Lessor's agent, relating to compliance with this Agreement.

10.2 The Lessee shall ensure that his and/or her foreign personnel and their families shall abide by the Laws of the Republic of the Union of Myanmar and they shall not interfere in the internal affairs of the Republic of the Union of Myanmar.

Clause 11. Within the Lease Period, the Lessee permits the Lessor to inspect all buildings on the Demised Premises with the full cooperation of the Lessee.

Clause 12. The Lessee must keep the Demised Premises in good condition at its own expense throughout the Lease Period. Should the Lessor incur damages from eviction of the Lessee or confiscation of possessions on the Demised Premises by third parties, or lose any rights or profits hereunder, the Lessee shall be held responsible for and shall compensate the Lessor in full for such damages and losses.

Clause 13. The Lessee shall pay and discharge all existing and future quit rent, assessments, municipal and other rates, taxes, charges, outgoings, duties, fees or other imposition of a like nature by whatever name called charged by the government or local authorities throughout the Lease Period on or relating to the payment of the Land Rent and the Fees, and in respect of the Demised Premises and the Lessee's business on the Demised Premises (the "Outgoings") and to keep the Lessor indemnified against all claims and demands in respect of the Outgoings.

Clause 14. Should the Lessor suffer loss or damage for whatever reason, directly or indirectly, arising from the performance or non-performance by the Lessee, or its employees, agents, servants or visitors in relation to its business on the Demised Premises, the Lessee shall liable for and shall make full compensation for such damages of whatsoever kind to the Lessor.

Clause 15. **15.1** The Lessee shall complete the construction of a 1,800 metric tons per day ("**TPD**") rice mill, a 400 TPD rice bran oil extraction plant and refinery (collectively, the "Construction Work") on the Demised Premises within the period of **24** months or any longer period approved by the Lessor from the Effective Date of this Agreement (as defined in Clause 29).

15.2 Should the Lessee fail to complete the Construction Work within the periods set out in Clause 15.1, the Lessee agrees that such event shall constitute a material breach of this Agreement, and the Lessor reserves the right to terminate this Agreement pursuant to Clause 20 set our below and the Lessor shall have the right to re-enter into the said Demised Premises.

Clause 16. During the construction of the Construction Work on the Demised Premises, the Lessee agrees to permit the Lessor or its agent to inspect the construction at all times. The Lessee shall provide convenient and cooperative support and follow the Lessor advice. Should the Lessor consider that any construction is unsatisfactory, the Lessor is entitled to instruct the Lessee to correct the construction and the Lessee shall use best efforts to comply with the Lessor's instructions. If the Lessor considers that the said faults are material, the Lessor shall have the right to instruct the Lessee to stop the construction immediately and the Lessor's decision shall be final. The Lessee shall be responsible for, and shall reimburse the Lessor from any loss or damage arising from, any delay to the cessation of construction and any construction fault.

Clause 17. **17.1** The Lessee shall strictly abide by such rules and conditions imposed by the Lessor from time to time with respect to the Demised Premises which shall be form an integral part of this Agreement. The Lessee shall comply in full with all the clauses contained therein.

17.2 The Lessor, its employees, servants, agents, contractors and workmen ("Lessor's Personnel") shall be entitled at all reasonable times to enter the Demised Premises to lay, fix or lead in, under or passing through the Demised Premises all cables, pipes, wires, drains, sewers and watercourses for supply of electricity, water, gas, sewerage services and telecommunication lines as the Lessor may require from time to time.

Clause 18. **18.1** On each occasion in which the Lessee omits, fails or neglects to do or effect anything which the Lessee has covenanted under this Agreement to do or effect, then the Lessor may

but shall not be obliged to (and without any prejudice to any rights powers and remedies of the Lessor) do or effect such thing by itself or through the Lessor's Personnel, as if the Lessor was the Lessee and for that purpose the Lessor's Personnel may enter upon the whole or any part of the Demised Premises and remain thereon for the purpose of doing or effecting any such thing and the Lessor may recover from the Lessee all costs, charges and expenses incurred by the Lessor in connection therewith.

18.2 Notwithstanding Clause 18.1, in the event that the Lessee fails to perform any obligation under any Clause and the Lessor has sent a letter of notice to the Lessee ordering him to perform its obligations within a specified period of time and the Lessee does not perform such obligations fully within such period, then the Lessor shall have the right to terminate this Agreement at its sole discretion and to claim from the Lessee all losses and damages incurred directly and indirectly therefrom.

Chapter 6. Easements

Clause 19. **19.1** In pursuance of this Agreement and in consideration of the grant contained in this Agreement, the Lessor hereby grants to the Lessee the following rights:

(a) right of way at all times to pass and repass over and along the existing roads and driveways and/or any future roads and driveways ("Other Roads") constructed on the parcels of land at Yangon Division, Thilawa Port Area plots No. 20 & 21 and the parcel of land of 26 acres adjoining Thilawa Port Area plots No. 21 and 22 (collectively, the "Land") for the purpose of allowing access for all purposes by the Lessee, its officers, employees, agents, contractors, workmen, invitees and licensees to the Demised Premises; and

(b) to the free and uninterrupted passage and running of supply of electricity, water, gas, sewerage services and telecommunication lines from and to the Demised Premises through the sewers, drains, watercourses, cables, pipes and wires that are now or hereafter, and at all times be laid in, under or passing through the Land with the right for the Lessor, its employees, agents, contractors and workmen to enter the Land for the purpose of repairing,

cleaning, maintaining or renewing such sewers, drains, watercourses, cables, pipes and wires, doing none or as little damage as possible to the Land.

19.2 The Lessee shall, at the Lessor's request and from time to time, contribute such sum(s) of money to be mutually agreed upon by the Parties towards the cost and expense of maintenance of the Other Roads, taking into account the extent of use of the access roads by the Lessee, its officers, employees, agents, contractors, workmen, invitees and licensees.

19.3 The construction of sewers, drains, watercourses, cables, pipes and wires by the Lessee pursuant to Clause 19.1 shall be at the cost and expense of the Lessee and subject to the Lessor's prior written consent that will not be unreasonably withheld or delayed.

Chapter 7. Termination

Clause 20. **20.1** The Parties may by mutual consent terminate this Agreement provided that both Parties jointly submit an application for the termination of this Agreement to the MIC in accordance with the Republic of the Union of Myanmar Foreign Investment Law and such consent is given.

20.2 Either Party may, by written notice to the other Party, terminate this Agreement with immediate effect for any of the following reasons:

(a) material breach of condition of this Agreement by the other Party without rectification within 30 (thirty) days from the written notification of the non-defaulting Party;

(b) force majeure persisting for more than 6 (six) months after the occurrence thereof;

(c) incapability of implementing the original aims and objects of the Lessee; or

(d) a compulsory land acquisition of the Demised Premises or any part thereof or a change of the category of land use of the Demised Premises, by any competent authority which affects the operation of the Lessee;

20.3 The Lessor may, by giving six (6) month prior written notice to the Lessee, terminate this Agreement.

20.4 On termination of the Agreement, the Lessee agrees to pay to the Lessor all arrears of Land Rent, Fees and all other sums owing and payable under this Agreement, and to stop operations immediately and remove all Lessee's Properties mentioned in Chapter 6 from the Demised Premises within 30 (thirty) days from the date of termination and return the Demised Premises to the Lessor in good condition, wear and tear excepted. If the Lessee fails to do so, the Lessee agrees to pay the Lessor daily damages calculated as follows until the Lessee shall have duly completed such removal and return:-

[Land Rent per year at the time of the termination x 20

365]

The Lessee shall bear all related cost of removal of the Lessee's Properties.

20.5 If the Lessee fails to remove such Lessee's Properties or cannot finish the removal, the Lessee shall permit the Lessor to remove such Lessee's Properties and the Lessee shall bear all expenses and damages as mentioned in Clause 20.4 and Land Rent and Fees until the day which is deemed by the Lessor as the day of complete removal.

Chapter 8. Notice

Clause 21. Any notice or other communication required to be given or sent hereunder shall be in English and be left or sent by prepaid registered post (airmail, if overseas) or electronic mail or international courier to the Party concerned at its address given underneath describing the names and addresses or such address as the Party concerned shall have notified in concurrence with this Clause to the other Party.

Lessor : Name : Wilmar Myanmar Port Terminals (Thilawa) Limited

Address : Plot No. 20 & 21, Thilawa Port Development Zone, Kyauktan Township, Yangon, Myanmar

Email : legal@wilmar.com.sg

Lessee : Name : Wilmar Myanmar Riceland Limited

Address : Plot No. 20 & 21, Thilawa Port Development Zone, Kyauktan Township, Yangon, Myanmar

Email : sundehai@cn.wilmar-intl.com

Chapter 9. Governing Law

Clause 22. This Agreement shall be governed by and construed under the Laws of the Republic of the Union of Myanmar.

Chapter 10. Arbitration

Clause 23. **23.1** The Parties shall use their best efforts to promptly and adequately resolve any dispute or controversy or difference which arises between them touching any matter or thing herein contained or the operation or construction thereof or any matter or thing in any way connected with this Agreement or the rights, interests, duties, obligations or liabilities of any Party under or in connection with this Agreement, through amicable consultations, conciliation, mediation or other agreed upon means.

23.2 Any dispute or controversy or difference referred to in Clause 23.1 which may arise between the Parties and remains unresolved may be referred to and determined by a single arbitrator. Such arbitrator shall be appointed by agreement between the Parties or (in default of such agreement within thirty (30) days) at the request of either the Lessor or the Lessee by the Chief Justice of the High Court having jurisdiction over the Region of Yangon. The arbitration shall be held in Yangon, Myanmar and proceed under the provisions of the Myanmar Arbitration Law (2016) and any modification thereof. The process shall be conducted in the English language.

23.3 The decision of the arbitrator shall be final and binding on the Parties.

Chapter 11. Force Majeure

Clause 24. **24.1** If either Party is temporarily rendered unable wholly or partly by Force Majeure to perform its duties or accept the performance by the other Party under this Agreement, it is agreed that the affected Party shall give notice to the other Party within 14 (fourteen) days after the occurrence of the cause relied upon, giving full particulars in writing of such Force Majeure. The duties of such Party as are effected by such Force Majeure shall, with the approval of the other Party, be suspended during the continuance of the disability so caused, as far as possible, be removed with all reasonable dispatch, Neither Party shall be responsible for delay damage or loss caused by Force Majeure.

24.2 The term, Force Majeure shall mean Act of Gods, wars, strikes, lock out industrial disturbances, explosions, earthquakes, flood, tsunamis, typhoons, fires, storm or other causes similar to kind herein enumerated which are beyond the control of either Party and which by exercise of due care and diligence, either Party is unable to overcome.

Chapter 12. Mineral Resources and Treasures

Clause 25. Mineral resources, treasure, gems and other natural resources discovered unexpectedly from, in or under the Demised Premises during the Lease Period of this Agreement shall be the property of the Government of the Republic of the Union of Myanmar and the Government of the Republic of the Union of Myanmar shall be at liberty to excavate the aforesaid at any time.

Chapter 13. Protection of Environment

Clause 26. The Lessee shall be responsible for the protection and preservation of the environment in and around the Demised Premises, and shall be able to control pollution of air, water and land and not to cause any environmental degradation. The Lessee shall also take necessary measures in order to make environmental protection such as installation of the waste water treatment plant and other treatment procedures to keep the Demised Premises environmentally friendly.

Chapter 14. Modification of Agreement

Clause 27. In the event that any situation or condition arises due to circumstances not envisaged in this Agreement and that it warrants amendments to this Agreement, the Parties hereto shall make necessary negotiations with a view to making such necessary amendments.

Chapter 15. Retransfer of the Demised Premises

Clause 28. **28.1** The Lessee shall, within 30 (thirty) days from the end of the Lease Period, transfer the Demised Premises to Lessor in good condition, ground damages having been refilled or repaired.

28.2 The Lessee shall have the right to be in possession and ownership of all movable properties which shall be removed at its own costs and/or disposed of within the 30 (thirty day period mentioned in Clause 28.1, but this shall not affecting the Lessor's right to claim for the Land Rent and Fees up to the date of actual complete evacuation if it extends beyond the said 30 (thirty) day period and for all losses and damages caused to the Demised Premises by Lessee arising from such removal and/or disposal.

28.3 Notwithstanding the above Clause 28.1, a new agreement for further period may be negotiated and agreed upon between the Parties before the expiry of the Lease Period upon the request of the Lessee.

Chapter 16. Condition Precedent

Clause 29. This Agreement shall become valid upon signing by the Parties hereof but shall become effective only upon receipt of the approval from the MIC (the "Effective Date of this Agreement").

This Agreement is made in triplicate having the same contents. Both Parties have read and thoroughly understood this document and hereunto affix their signatures. Each Party shall keep one copy and the remaining one will be submitted for registration.

Chapter 17. Invalidity

Clause 30. In the event that any provision of this Agreement is deemed invalid, unlawful or unenforceable under any applicable law, the validity, legality or enforceability of the remaining provisions of this Agreement shall not be affected or impaired and this Agreement shall be construed as if such invalid, unlawful or unenforceable provision had never been contained in this Agreement.

The Lessor:

On and behalf of

Wilmar Myanmar Port Terminals (Thilawa) Limited

____

[ ]

Director

In the presence of :

Name :

Title :

The Lessee:

On the behalf of

Wilmar Myanmar Riceland Limited

____

[ ]

Director

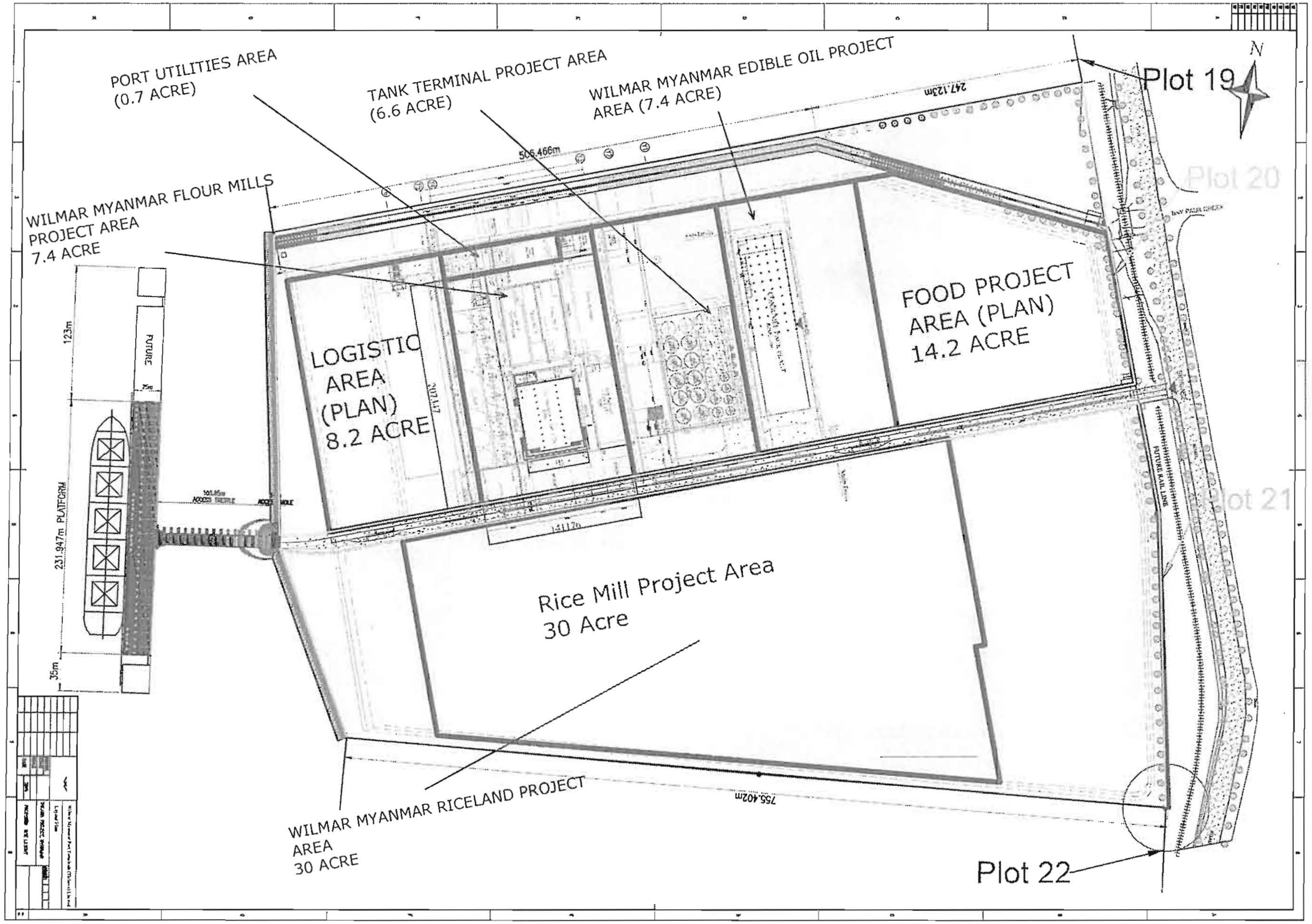
In the presence of :

Name :

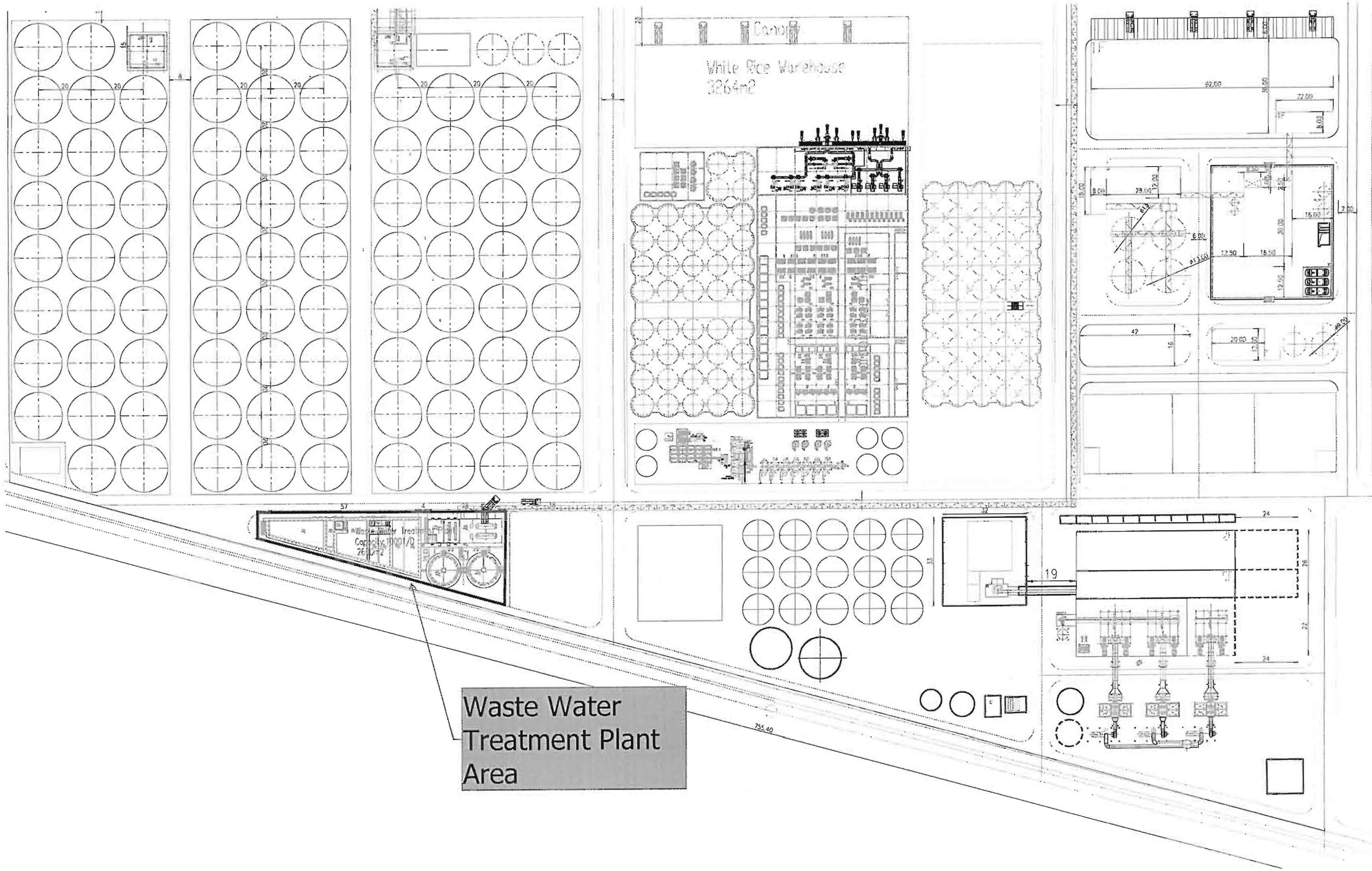
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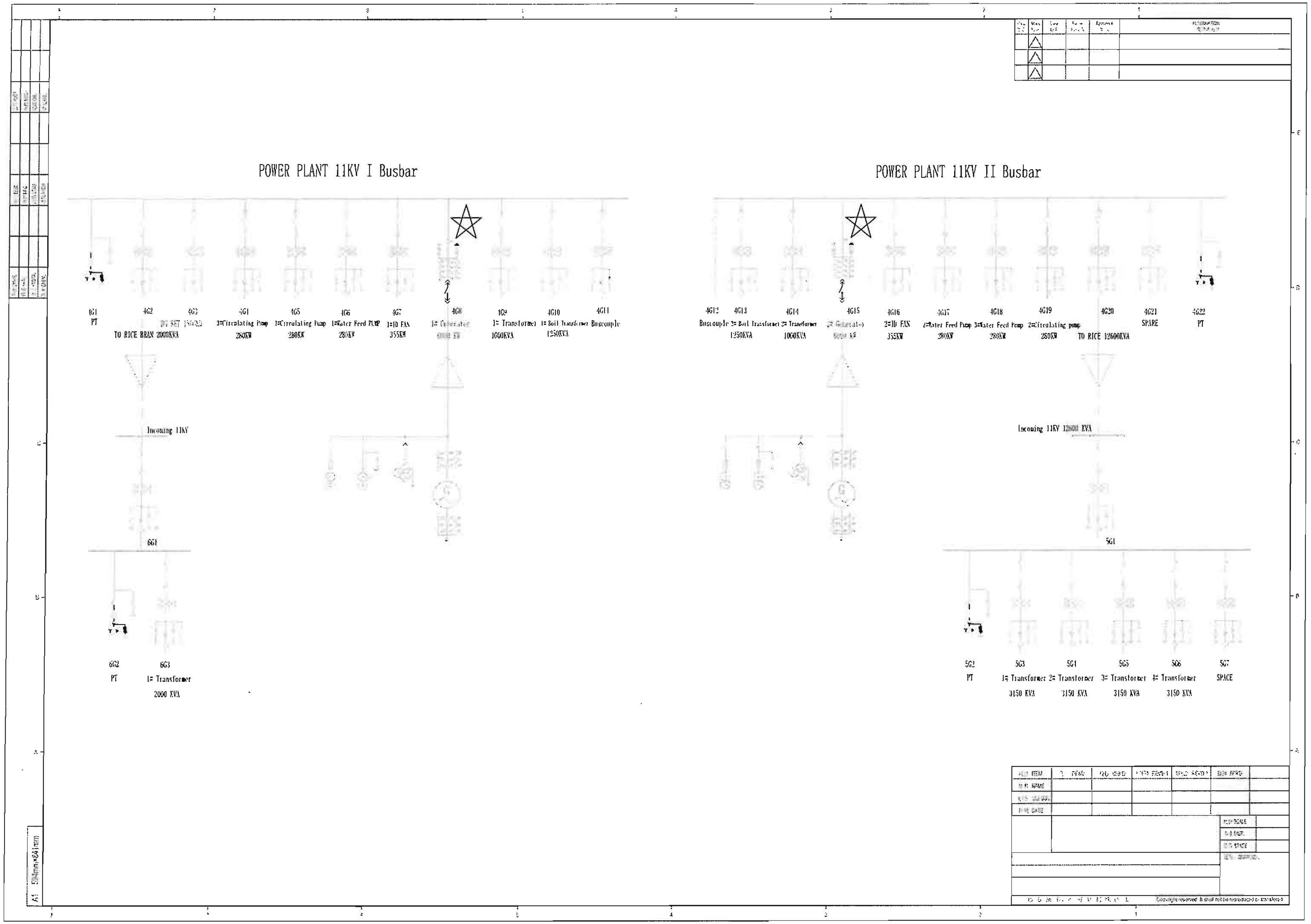
Annex XV

Maps / Drawings of the Project

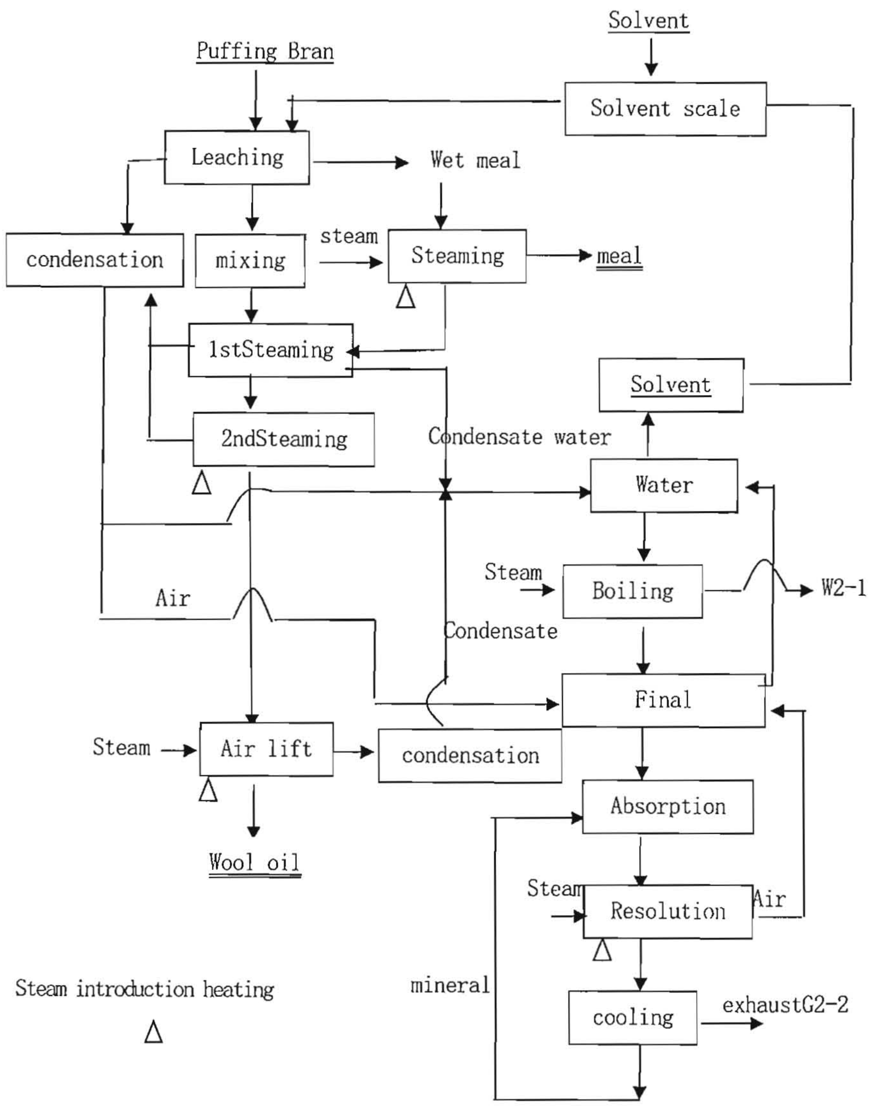


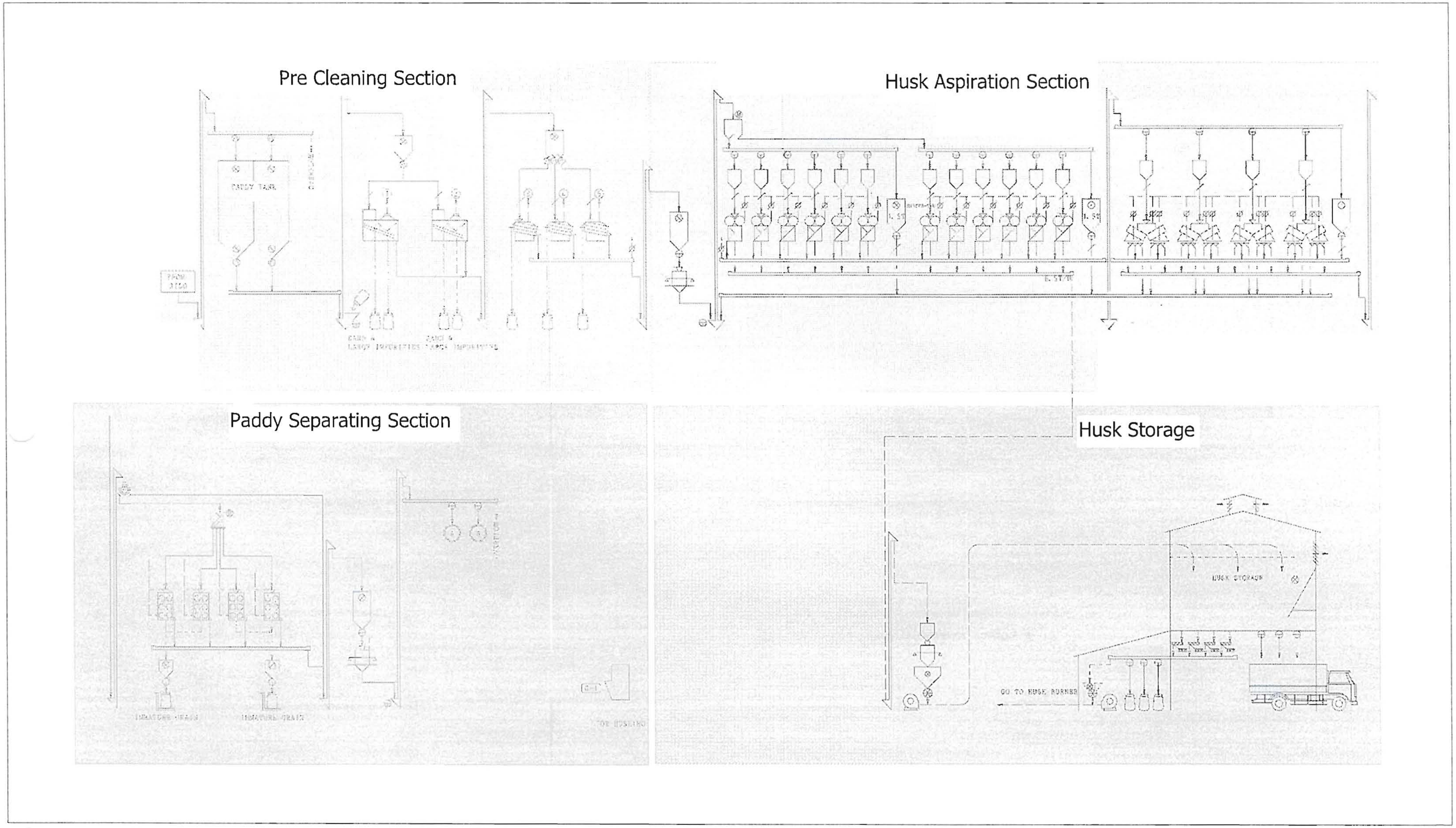
PORT UTILITIES AREA
(0.7 ACRE)
TANK TERMINAL PROJECT AREA
(6.6 ACRE)
WILMAR MYANMAR EDIBLE OIL PROJECT
AREA (7.4 ACRE)
Plot 19
N
Plot 20
WILMAR MYANMAR FLOUR MILLS
PROJECT AREA
7.4 ACRE
LOGISTIC
AREA
(PLAN)
8.2 ACRE
FOOD PROJECT
AREA (PLAN)
14.2 ACRE
Plot 21
Rice Mill Project Area
30 Acre
WILMAR MYANMAR RICELAND PROJECT
AREA
30 ACRE
Plot 22
506.466m
247.123m
755.402m
123m
231.947m PLATFORM
35m
FUTURE


White Rice Warehouse
3264m2
Waste Water Treatment Plant Area


POWER PLANT 11KV I Busbar
POWER PLANT 11KV II Busbar
4G1 PT
4G2 TO RICE BRAN 2000KVA
4G3
4G4 3=Circulating Pump 280KW
4G5 1=Circulating Pump 280KW
4G6 1=Water Feed PUMP 280KW
4G7 1=ID FAN 355KW
4G8
4G9 1= Transformer 1000KVA
4G10 1= Boil Transformer 1250KVA
4G11 Buscouple
4G12 Buscouple
4G13 2= Boil Transformer 1250KVA
4G14 2= Transformer 1000KVA
4G15
4G16 2=ID FAN 355KW
4G17 2=Water Feed Pump 280KW
4G18 3=Water Feed Pump 280KW
4G19 2=Circulating pump 280KW
4G20 TO RICE 12600KVA
4G21 SPARE
4G22 PT
Incoming 11KV
Incoming 11KV 12600 KVA
6G1
6G2 PT
6G3 1= Transformer 2000 KVA
5G1
5G2 PT
5G3 1= Transformer 3150 KVA
5G4 2= Transformer 3150 KVA
5G5 3= Transformer 3150 KVA
5G6 4= Transformer 3150 KVA
5G7 SPACE
A1 594mm×841mm

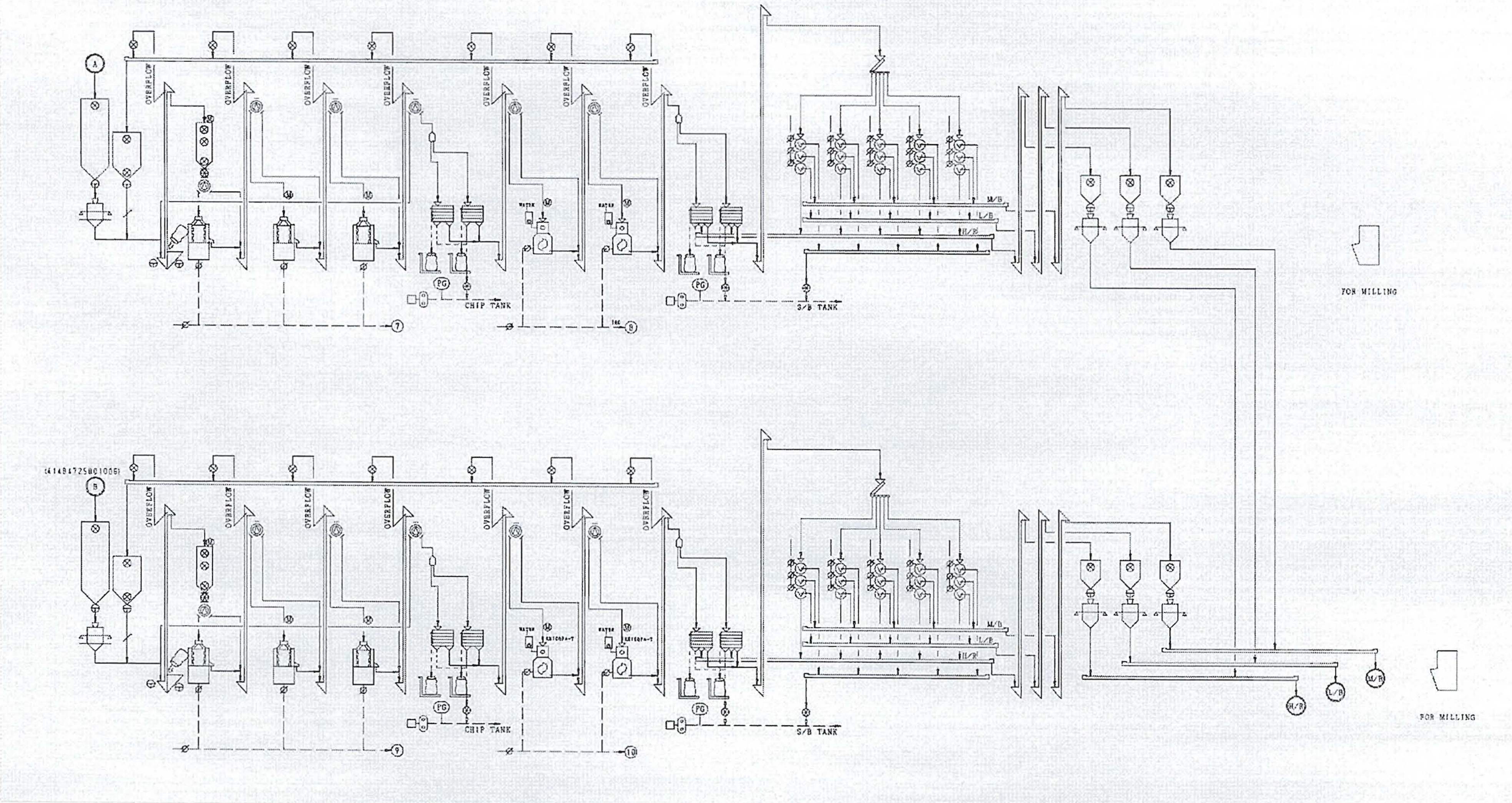
Extraction process flow:



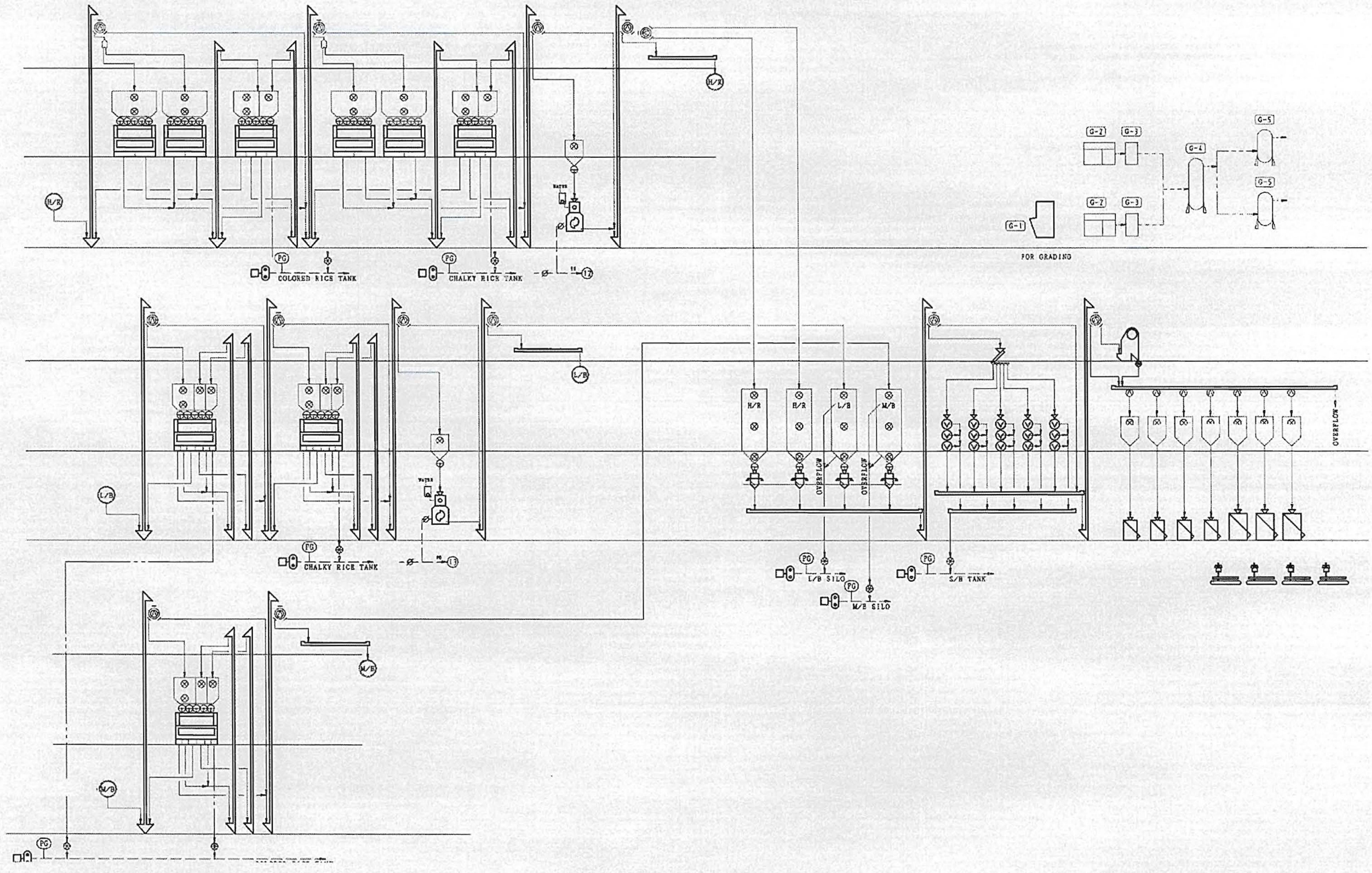


Pre Cleaning Section
Husk Aspiration Section
Paddy Separating Section
Husk Storage

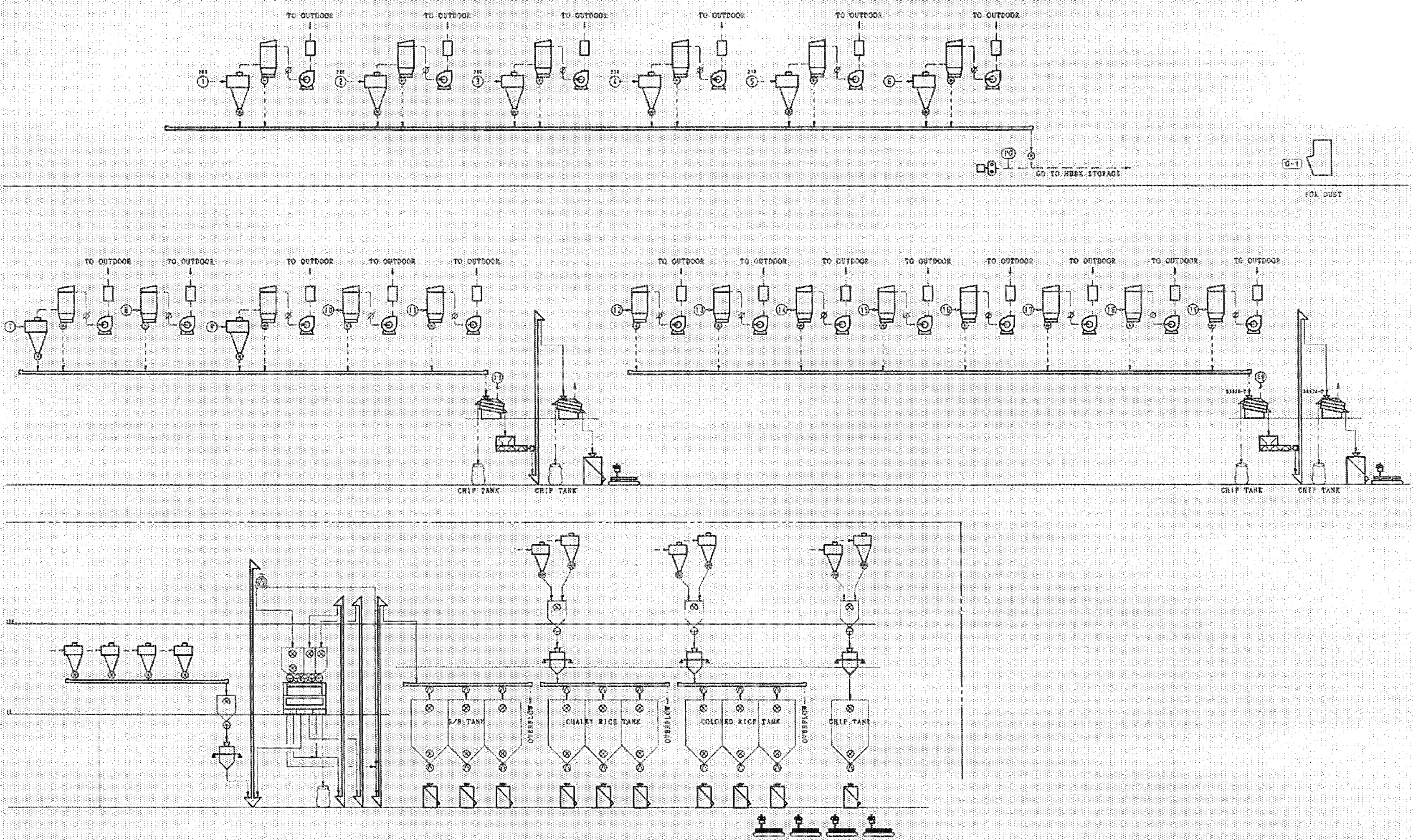
Whitening and Polishing Section



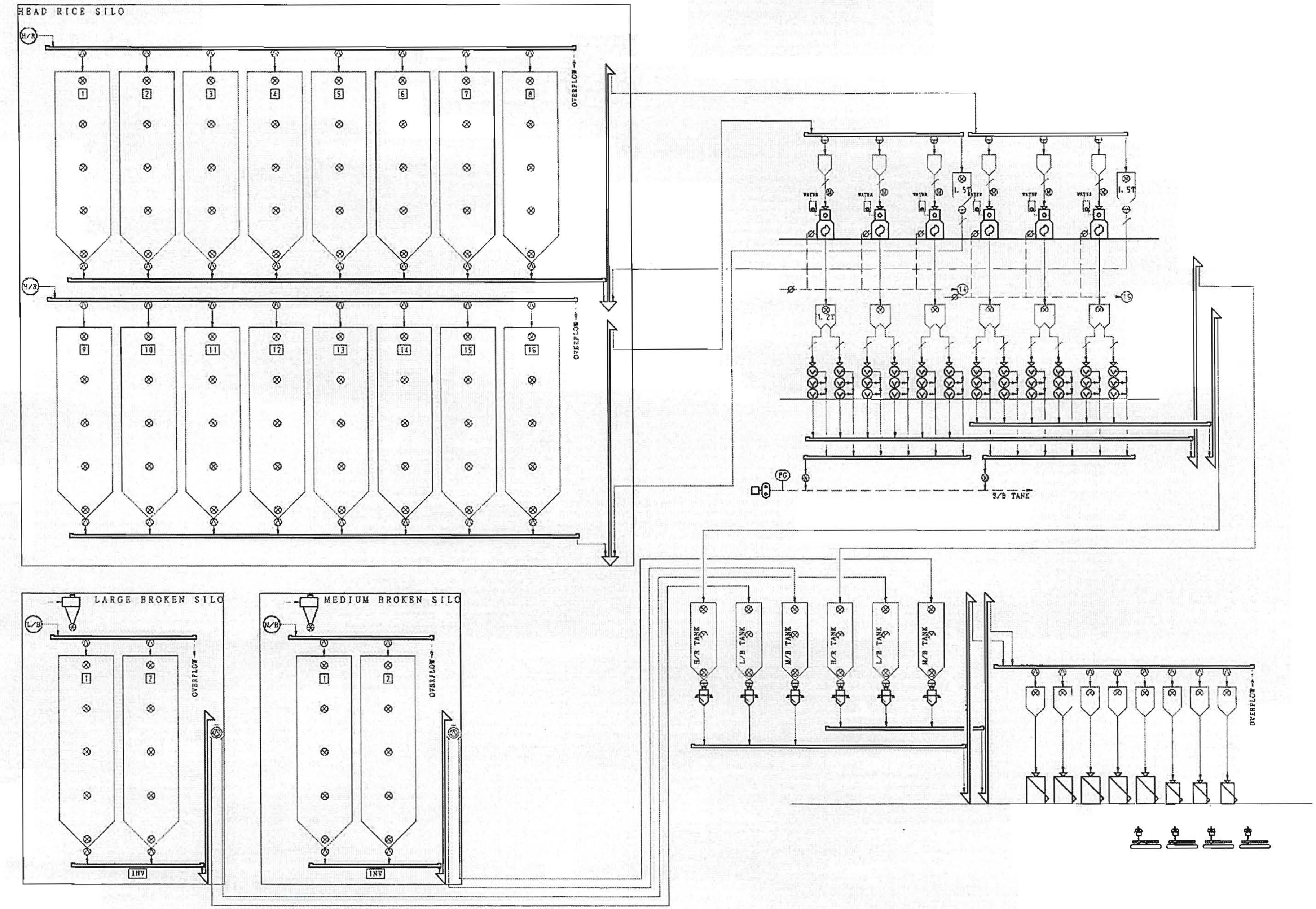
Color Sorting and Length Grading Section

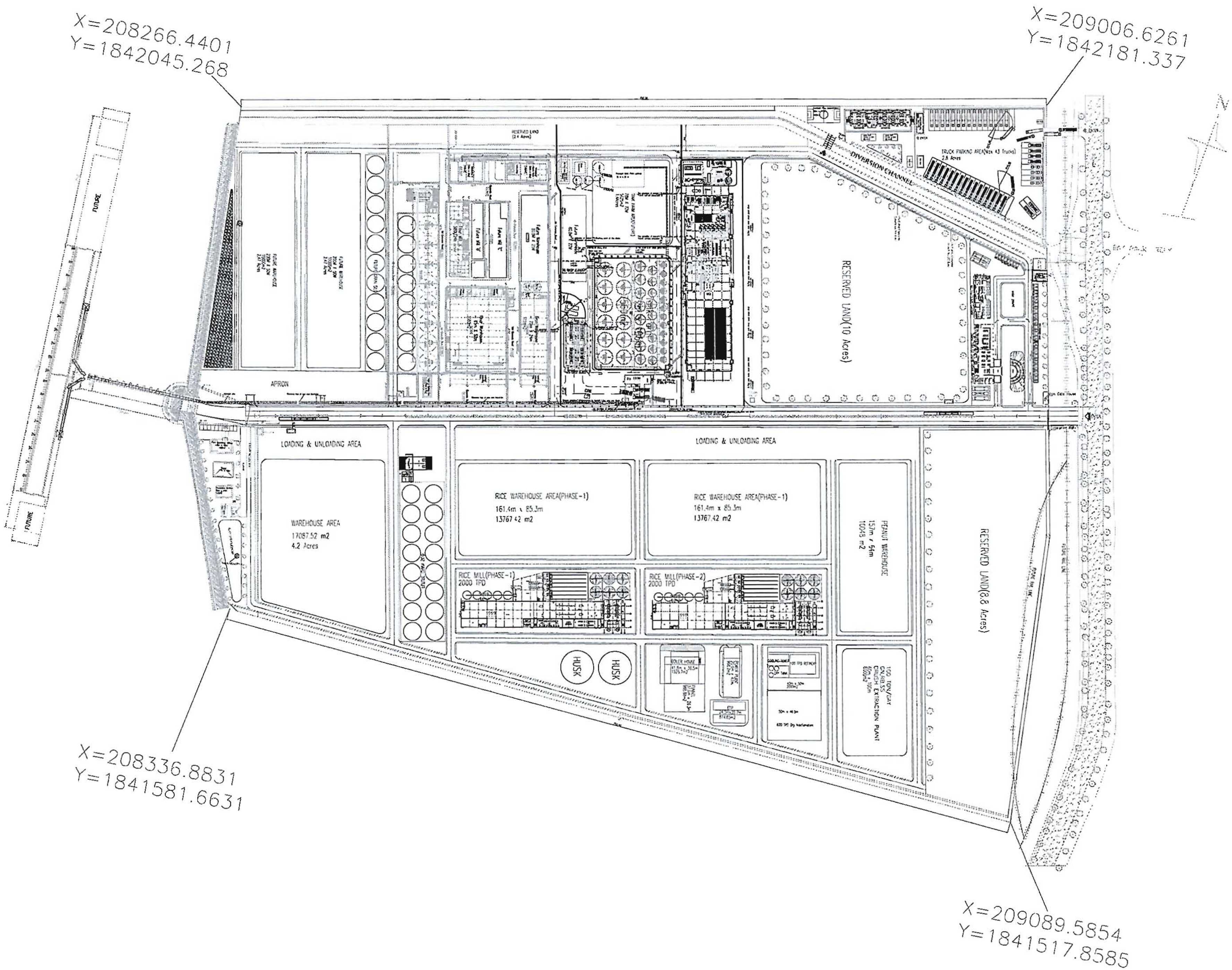


Color Sorting and Length Grading Section (Continued)



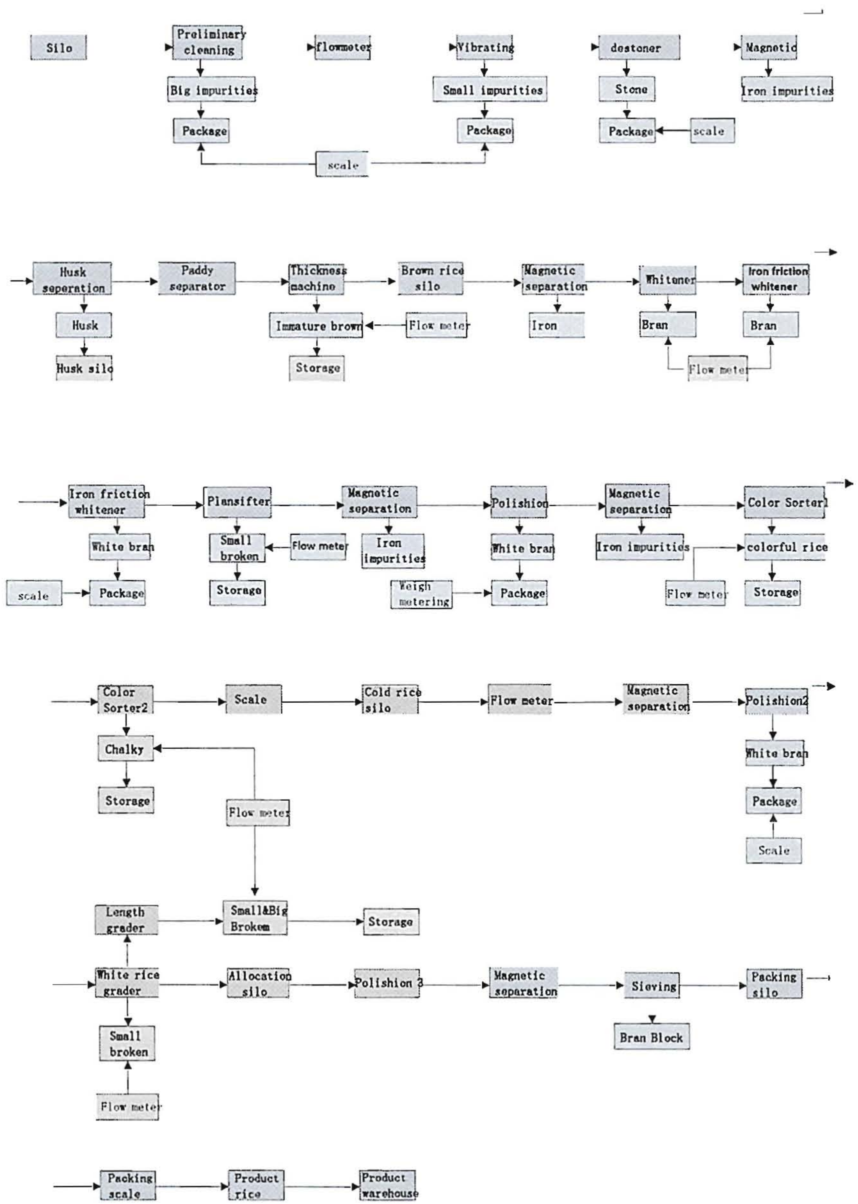
Rice Storage System



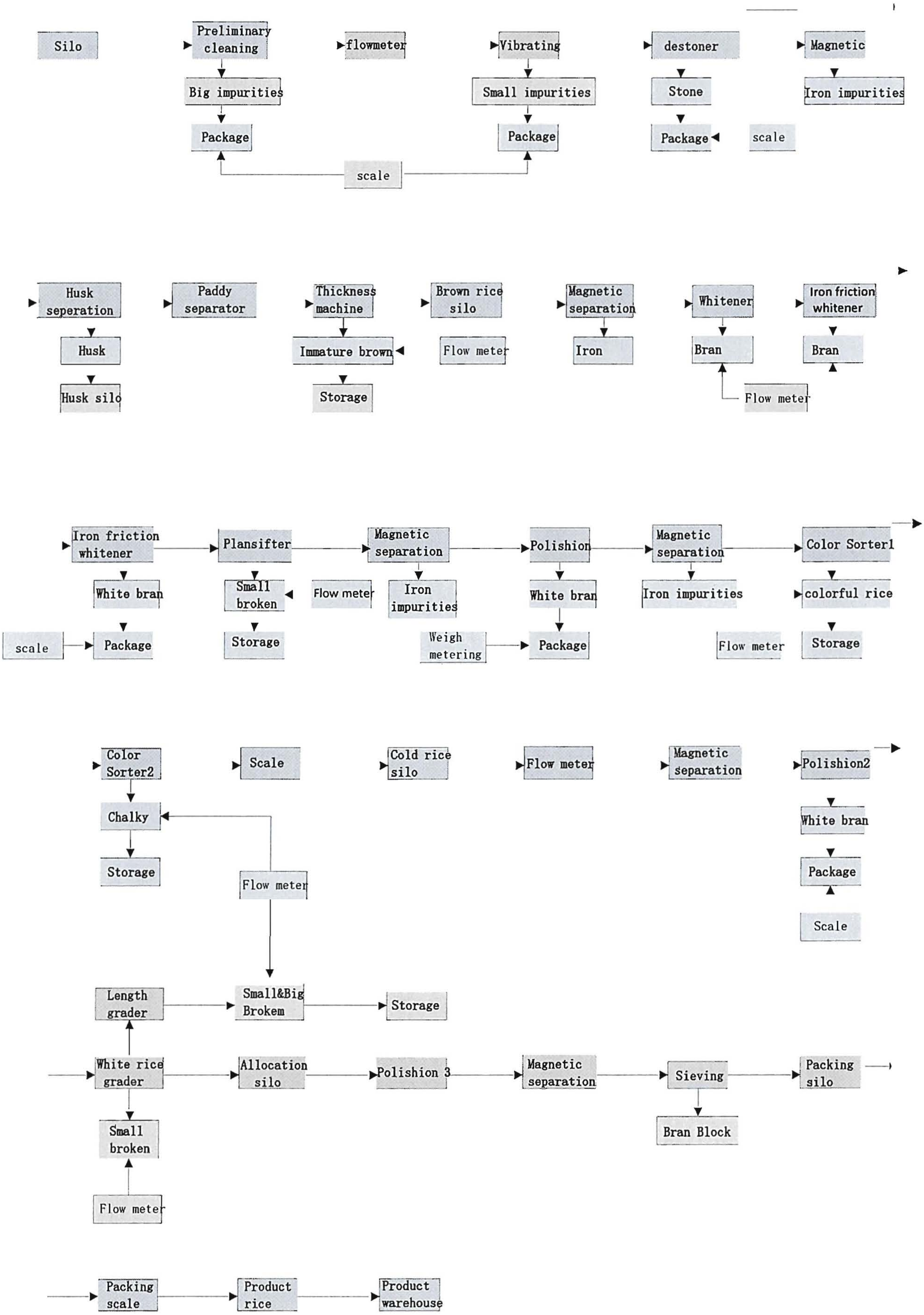


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Y=1842045.268
X=209006.6261
Y=1842181.337
DIVERSION CHANNEL
RESERVED LAND(10 Acres)
APRON
LOADING & UNLOADING AREA
LOADING & UNLOADING AREA
WAREHOUSE AREA
17087.52 m2
4.2 Acres
RICE WAREHOUSE AREA(PHASE-1)
161.4m x 85.3m
13767.42 m2
RICE WAREHOUSE AREA(PHASE-1)
161.4m x 85.3m
13767.42 m2
PEANUT WAREHOUSE
RICE MILL(PHASE-1)
2000 TPD
RICE MILL(PHASE-2)
2000 TPD
HUSK
HUSK
CRUSH EXTRACTION PLANT
RESERVED LAND(3.8 Acres)
FUTURE
FUTURE
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Y=1841581.6631
X=209089.5854
Y=1841517.8585

Rice Mill Process Flow:



Rice Mill Process Flow:



Annex XVI

Joint Venture Agreement (Draft)

Draft dated 18 October 2018

Dated this _____________, 2018

Amongst

WILMAR INVESTMENT HOLDINGS PTE. LTD.
Wilmar

and

STAPLE FOOD SUPPLY COMPANY LIMITED
Staple

and

RLG HOLDING LIMITED
Riceland

and

WILMAR MYANMAR RICELAND LIMITED
Company

JOINT VENTURE AGREEMENT

TABLE OF CONTENTS

JOINT VENTURE AGREEMENT

This Agreement is dated ________________, 2018

Amongst

WILMAR INVESTMENT HOLDINGS PTE. LTD., a company incorporated under the laws of Singapore with registration number 201221334H and having its registered office at 56 Neil Road, Singapore 088830 ("**Wilmar**");

STAPLE FOOD SUPPLY COMPANY LIMITED, a company incorporated under the laws of the Republic of the Union of Myanmar and having its registered office address at No. 36, Thein Phyu Road, Pazundaung Township, Yangon, Myanmar ("**Staple**");

RLG HOLDING LIMITED, a company incorporated under the laws of Hong Kong and having its registered office at Suite 501, Tai Sang Bank Building, 130-132 Des Voeux Road, Central, Hong Kong ("**Riceland**"); and

WILMAR MYANMAR RICELAND LIMITED, a company incorporated and existing under the laws of the Republic of the Union of Myanmar and having its registered address at Plot No. 20 & 21, Thilawa Port Development Zone, Kyauktan Township, Yangon, Myanmar (the "**Company**"),

(collectively as the "**Parties**", or individually as a "**Party**").

RECITALS

A. The Company is a private company limited by shares incorporated in the Republic of the Union of Myanmar on [•] and has at the date of this Agreement an issued and paid up capital of US$75,000 comprising 7,500 ordinary shares of US$10 each. The relevant corporate details of the Company are set out in Schedule 1 to this Agreement.

B. Wilmar, Staple and Riceland are the legal and beneficial owners of such number of Shares as set out against its name in Schedule 1 to this Agreement.

It is intended for the Company to carry on the Business (as defined below). To give effect to such intention, and to regulate the relationship of the Shareholders *inter se* as shareholders in the Company, the Shareholders have agreed to enter into this Agreement on the terms and conditions hereinafter set out.

AGREED TERMS

1. DEFINTIONS AND INTERPRETATION

1.1 The definitions and rules of interpretation in this Clause apply in this Agreement.

"**Additional Valuation**" has the meaning given in **Schedule 4**.

"**Additional Valuer**" has the meaning given in **Schedule 4**.

"**Adherence Agreement**" means an agreement in the form attached as **Schedule 3** (or such other form approved in writing by the Shareholders) pursuant to which a transferee or allottee of Shares agrees to be bound by all the terms of this Agreement.

"**Affiliates**" means, with respect to any person, any other person that, directly or indirectly through one (1) or more intermediaries, Controls, or is Controlled by, or is under common Control with, such person.

"**Agreed Interest**" means, with respect to payments in USD, the time weighted annual average of ICE USD 3 MONTH LIBOR fixing rate (available at https://www.theice.com/iba/libor), provided that where such rate is negative, the rate shall be taken as zero (0) per cent].

"**Beneficiary**" has the meaning given in Clause 15.9.

"**Board**" means the board of directors of the Company.

"**Business Day**" means a day (other than a Saturday or Sunday) when banks in Singapore and Myanmar are open for business.

"**Business**" has the meaning given in Clause 2.1.

"**Business Plan**" has the meaning given in Clause 7.

"**Call Option**" has the meaning given in Clause 15.8.

"**Chairman**" has the meaning given in Clause 3.21.

"**Change of Control Notice**" has the meaning given in Clause 13.1.

"**Change of Control Put Option**" has the meaning given in Clause 13.2, and a summary of which is set out in Schedule 6.

"**Changed Shareholder**" has the meaning given in Clause 13.1.

"**Company**" means Wilmar Myanmar Riceland Limited, a company incorporated under the laws of Myanmar, further details of which are set out in **Schedule 1**.

"**Competing Business**" means a business in Myanmar which is predominantly similar to and in competition with the Business in the reasonable opinion of the Directors nominated by the Shareholders other than the Competing Shareholder.

"**Competing Shareholder**" has the meaning given in Clause 19.7.

"**Competitor**" means in relation to a Shareholder, a person who carries on, directly or indirectly, a business which is predominantly similar to and in competition with the business of that Shareholder and/or its Affiliates.

"**Confidential Information**" has the meaning given in Clause 21.1.

"**Constitution**" means the Constitution of the Company, as amended from time to time.

"**Continuing Shareholder**" has the meaning given in Clause 14.2.

"**Control**" in relation to a body corporate, means the power of a person to secure that the affairs of the body corporate are conducted in accordance with the wishes of that person:

(a) by means of the holding of shares, or the possession of voting power, in or in relation to that or any other body corporate; or

(b) by virtue of any powers conferred by the constitution, or any other document, regulating that or any other body corporate,

and a "**Change of Control**" occurs if a person who controls any body corporate ceases to do so or if another person acquires control of it. For the purposes of this Agreement, no Change of Control shall be deemed to have occurred with respect to (i) Wilmar, so long as Wilmar International remains its ultimate holding company; (ii) Staple, so long as (a) U Myint Maw, U Ne Lin and U Kyaw Thar Oo remain its ultimate legal and beneficial shareholder, or (b) Resources Group Commercial Company Limited is its ultimate legal and beneficial shareholder;

and (iii) Riceland, so long as Vichai Sriprasert, Rosarin Sriprasert, Jennifer Sriprasert, Lena Sriprasert, Linda Sriprasert, Lisa Sriprasert and Jeffrey Sriprasert remains its ultimate legal and beneficial shareholders.

"**Controlled Shareholder**" has the meaning given in Clause 13.1.

"**Deadlock**" has the meaning given in Clause 11.1.

"**Deadlock Option**" has the meaning given in Clause 12.2, and a summary of which is set out in Schedule 6.

"**Deadlock Transfer Period**" has the meaning given in Clause 12.3.

"**Default Option Notice**" has the meaning given in Clause 15.9.

"**Default Shares**" has the meaning given in Clause 15.9.

"**Defaulting Shareholder**" has the meaning given in Clause 15.7.

"**Director**" means any director of the Company (including alternate directors, if any) from time to time.

"**Encumbrance**" includes all encumbrances (whether monetary or not) and all other rights exercisable by third Parties.

"**Extended Board Reserved Matters**" means the reserved board matters listed in Part 3 of **Schedule 2**.

"**Extended Shareholder Reserved Matters**" means the reserved shareholder matters listed in Part 4 of **Schedule 2**.

"**Fair Market Value**" means the value of any shares determined in accordance with **Schedule 4**.

"**First Shareholder**" has the meaning given in Clause 12.2.

"**Financial Year**" in relation to the Company means a financial accounting period of 12 months ending on 31 March in each year.

"**Financing Shareholder**" has the meaning given in Clause 6.3.

"**Group**" in relation to a company (wherever incorporated), that company, any company of which it is a Subsidiary (its holding company) and any other Subsidiaries of any such holding company; and each company in a Group is a member of the Group. Unless the context otherwise requires, the application of the definition of Group to any company at any time shall apply to the company as it is at that time.

"**Initially Agreed Valuer**" has the meaning given in **Schedule 4**.

"**IPO**" has the meaning given in Clause 15.1(b).

"**Material Discrepancy**" has the meaning given in **Schedule 4**.

"**Myanmar**" means the Republic of the Union of Myanmar.

"**Non-Compete Territory**" has the meaning given in Clause 19.1.

"**Non-Compete Undertaking**" has the meaning given in Clause 19.2.

"**Non-Defaulting Shareholder**" has the meaning given in Clause 15.7.

"**Offer Notice**" has the meaning given in Clause 19.7(b).

"**Option Exercise Notice**" has the meaning given in Clause 19.7(b).

"**Other Shareholders**" has the meaning given in Clause 12.2.

"**Permitted Transaction**" has the meaning given in Clause 19.7.

"**Proposal Notice**" has the meaning given in Clause 19.7(a).

"**Proposal Exercise Notice**" has the meaning given in Clause 19.7(a).

"**Put Option**" has the meaning given in Clause 15.8, and a summary of which is set out in Schedule 6.

"**Riceland Director**" means any director appointed to the Company as nominated by Riceland.

"**Reserved Matters**" means the Restricted Board Reserve Matters and Extended Board Reserved Matters in **Schedule 2.**

"**Restricted Board Reserved Matters**" means the reserved board matters listed in Part 1 of **Schedule 2**.

"**Restricted Shareholder Reserved Matters**" means the reserved shareholder matters listed in Part 2 of **Schedule 2.**

"**Seller**" has the meaning given in Clause 14.3 unless the context requires otherwise.

"**Senior Management Meeting**" has the meaning given in Clause 11.1.

"**Share**" means any issued and paid-up ordinary share in the share capital of the Company of USD10 each and "**Shares**" shall be construed accordingly.

"**Shareholders**" means Wilmar, Staple and Riceland or any person to whom Shares are transferred or issued in accordance with this Agreement from time to time.

"**Shareholding Proportion**" means the proportion of Shares held by each Shareholder, as detailed in **Schedule 1**.

"**Staple Director**" means any director appointed to the Company as nominated by Staple.

"**SIAC**" has the meaning given in Clause 33.1.

"**Subsidiary**" means a company which is under Control of another company (its holding company).

"**Termination Notice**" has the meaning given in Clause 15.7.

"**Transfer Notice**" has the meaning given in Clause 14.3.

"**United States Dollars**" or "**USD**" means US Dollars, being the lawful currency of the United States of America.

"**Warranties**" means the warranties out in Clause 18.1.

"**Wilmar International**" means Wilmar International Limited, a company incorporated under the laws of Singapore with registration number 199904785Z and having its registered office at 56 Neil Road, Singapore 088830.

"**Wilmar Director**" means any director appointed to the Company as nominated by Wilmar.

1.2 Clause and schedule headings do not affect the interpretation of this Agreement.

1.3 A person includes any individual, any form of body corporate, unincorporated association, firm, partnership, joint venture, consortium, association, organisation or trust (in each case whether or not having a separate legal personality).

1.4 Words in the singular include the plural and in the plural include the singular unless otherwise specified.

1.5 A reference to one gender includes a reference to the other gender.

1.6 A reference to a law is a reference to it as it is in force for the time being taking into account of any amendment, extension, application or re-enactment and includes any subordinate legislation for the time being in force made under it.

1.7 Documents in **Agreed Form** are documents in the form agreed by the Shareholders and initialled by them for identification.

1.8 A reference to a document is a reference to the document whether in paper or electronic form.

1.9 Any Shares held by any wholly owned subsidiary of a Shareholder shall be deemed to form part of the Shares owned by such Shareholder respectively.

2. THE BUSINESS

2.1 The business of the Company shall be :

(i) the construction, ownership and management of rice mills and rice bran oil refineries in Myanmar;

(ii) the purchase of dry paddy for processing at the said rice mills;

(iii) the purchase of rice bran for (a) the extraction of rice bran oil and the refining of such rice bran oil, and (b) use in livestock feed;

(iv) the construction and management of a 20 Megawatt rice husk power plant, the production of electrical power from such power plant through the burning of rice husk for captive use by the Company and its related corporations in the Thilawa Port Development Zone, and where possible for sale to the Myanmar national electricity grid, and the purchase of rice husk to power the said power plant;

(v) the purchase, packing and sale (including export) of rice husk, rice bran, bran oil, broken rice and polished rice, and related by-products of rice production (including animal feed);

(vi) sale of rice husk ash and related products such as silica and fly ash bricks;

(vii) sale of rice lecithin and rice noodles;

(viii) sale of rice flour and rice flour-based products;

(ix) import and provision of agri-inputs (fertilisers, seeds, pesticides) to farmers/ paddy suppliers as part of the Company's farmers program; and

(x) such other business as the Shareholders may agree from time to time,

(collectively, the "**Business**").

2.2 Each of the Shareholders shall use its reasonable endeavours to ensure that the Company shall purchase its raw materials on the most competitive terms and conditions and the rice mills and rice bran oil refineries shall be operated in the most cost-efficient way.

2.3 Each Party shall use best endeavours to promote and develop the Business to the best advantage of the Company.

3. DIRECTORS AND MANAGEMENT

Directors

3.1 Save in respect of those matters which are specifically reserved in Clause 4, the Board has responsibility for the supervision and management of the Company and the Business.

3.2 The Board shall, subject to the provisions of this Agreement and in particular Clause 3.4, consist of a maximum of five (5) Directors, which shall consist initially of the following:

(a) two (2) Wilmar Directors;

(b) one (1) Staple Director; and

(c) two (2) Riceland Directors.

The Parties shall do all things as may be necessary and reasonably in their power to bring this into effect.

3.3 For so long as the Shareholding Proportion is maintained, the Shareholders shall have the right to nominate Directors in the proportions set out in Clause 3.2.

3.4 Each of the Parties acknowledges and agrees that should the shareholding of any Shareholder fall below 20% of the total number of Shares, such Shareholder(s) shall lose its right to nominate a Director under this Agreement.

3.5 A Shareholder who nominated a Director may at any time require the removal or substitution of any Director so appointed by it by giving notice to the Company.

3.6 A Director may at any time appoint any person (including another Director) to be his alternate and remove or replace such alternate Director. All appointments, removals and replacements of alternate Directors made by any Director shall be in writing under the hand of the Director making the same and shall take effect from the date of its receipt at the registered office of the Company or on the date of appointment, removal or replacement specified in the notice, whichever is the later. An alternate Director may represent more than one Director and an alternate Director shall be entitled at Board meetings to one vote for every Director whom he represents and, in the case where he is also a Director, in addition to his own vote.

3.7 The Board shall hold meetings as often as may be necessary for the due despatch of its business or upon the request of any one (1) Director or the Chairman. The Directors may meet at any place for the despatch of their business, adjourn and otherwise regulate their meetings as they deem fit.

3.8 The Parties shall ensure that at least five (5) days' notice of a meeting of the Board is given to all Directors entitled to receive notice accompanied by:

(a) an agenda specifying in reasonable detail the matters to be raised at the meeting; and

(b) copies of any papers to be discussed at the meeting.

3.9 A shorter period of notice of a meeting of the Board may be given if all of the Directors agree in writing.

3.10 Matters not on the agenda may not be raised at a meeting of the Board or business conducted in relation to those matters unless all the Directors agree in writing.

3.11 Subject to Clause 4, and for so long as the Shareholding Proportion is maintained, the quorum at any meeting of the Board (including adjourned meetings) shall require a majority of the Directors each present personally or by his alternate being in attendance, or by way of telephone or video conference, including at least one (1) Wilmar Director and one (1) Riceland Director.

3.12 No business shall be conducted at any meeting of the Board unless a quorum is present at the beginning of the meeting and at the time when there is to be voting on any business.

3.13 If no quorum is present within 30 minutes of the time appointed for the Board meeting, the meeting shall stand adjourned to the date which is five (5) Business Days after the original date appointed for the meeting at the same time and place.

3.14 Should the initial meeting of the Board be adjourned due to insufficient quorum, the quorum at the adjourned meeting shall be any two (2) Directors, of which one (1) shall be a Wilmar Director and the other a Riceland Director. If a quorum is not met at the adjourned meeting, a Deadlock shall be deemed to have taken place.

3.15 A meeting of the Board shall be adjourned to another time or date at the request of any Director present at the meeting. No business may be conducted at a meeting after such a request has been made. No more than one (1) such adjournment may be made in respect of a meeting.

3.16 Save as provided in this Agreement and as otherwise required by applicable law, all matters for decision by the Board shall require a resolution at a meeting of the Board, duly convened and held, passed by a majority of the Directors present and voting.

3.17 A resolution in writing, circulated or made available to the Directors and agreed to by a majority of the Directors shall be as valid and effectual as if it had been passed at a meeting of the Board duly convened and held notwithstanding that such a resolution may take place at different times or places. For the purpose of this paragraph, "in writing" and "signed" include approval by facsimile. Any such resolution may consist of several documents in like form, each signed by one or more Directors. For the purposes of this Clause, a resolution is agreed to by a Director if the resolution indicates the Director's agreement to the resolution and includes the text of the resolution or otherwise makes clear that it is that resolution that is being agreed to.

3.18 A Director shall not be prohibited from voting or being counted in a quorum at any Board meeting in respect of any contract, transaction or arrangement in which he is or may be interested provided he has disclosed the nature of his interest.

3.19 The Shareholders acknowledge that where any Director is appointed by any Shareholder under a right conferred by this Agreement, that Director, in performing any of his duties or exercising any power, right or discretion as a Director, shall be entitled to have regard to and represent the interests of his appointor and to act on the wishes of his appointor except in any case where no honest and reasonable director may hold the view that in so doing, the Director was acting *bona fide* in the best interests of the Company.

3.20 The General Manager of the Company shall be appointed by the Board, and such General Manager shall appoint the other key executives of the Company.

Chairman

3.21 The chairman of the Board ("**Chairman**") shall be a Wilmar Director for so long as the Shareholding Proportion is maintained. In the case of an equality of votes at any meeting of the Board, the Chairman shall be entitled to a second or casting vote.

3.22 The Chairman of the Board shall preside at all meetings of the Directors. If the Chairman of the Board is absent from any meeting of the Directors, the other Director nominated by Wilmar (present in person or by his alternate) shall preside at such meeting.

Managing Director

3.23 The Managing Director of the Company, if any, shall be appointed by Wilmar. The Managing Director shall, if one is appointed, supervise the day-to-day operations of the Company. The Managing Director may also act as the Chairman of the Company.

4. RESERVED MATTERS

4.1 The Reserved Matters shall always require the prior written approval of the Board or Shareholders, as the case may be.

4.2 For so long as a Shareholder owns at least 40% of the total number of Shares, the Extended Board Reserved Matters with respect to the Company shall require the affirmative vote of one (1) of such Shareholder's nominated Director(s) and the Extended Shareholder Reserved Matters with respect to the Company shall require the affirmative vote of such Shareholder.

4.3 For so long as a Shareholder owns at least 20% of the total number of Shares, the Restricted Board Reserved Matters with respect to the Company shall require the affirmative vote of one (1) of such Shareholders' nominated Director(s) and the Restricted Shareholder Reserved Matters with respect to the Company shall require the affirmative vote of such Shareholder.

5. SHAREHOLDERS MEETING

5.1 For so long as the Shareholding Proportion is maintained, the quorum for any meeting of the Shareholders shall be the presence (in person or by proxy) of a duly authorized representative of each of Wilmar, Riceland and Staple. If a quorum is not present within an hour of the time appointed for a meeting, the meeting shall be adjourned and be summoned within (14) days to the same place and at the same time. If a quorum is not present within an hour of the time appointed for the adjourned meeting, a Deadlock shall be deemed to have taken place.

5.2 Save as provided in this Agreement and as otherwise required by applicable law, all matters for decision by the Shareholders shall be decided by Shareholders holding Shares carrying more than 60% of the total voting rights exercisable at general meetings of the Company.

5.3 Notwithstanding Clause 5.2, resolutions required by applicable law to be passed as a special resolution of the Shareholders shall require a resolution passed by Shareholders holding Shares carrying more than 75% of the total voting rights exercisable at general meetings of the Company.

6. FINANCING OF THE COMPANY

6.1 The Company will be initially financed from capital contributions (in the form of shareholders' loans and/or issue of Shares) from all of the Shareholders in proportion to their Shareholding Proportion *inter se* but otherwise on the same terms (unless they otherwise agree in writing) in accordance with this Clause 6, to be effected simultaneously.

6.2 The Shareholders agree that they will agree periodically to:

(a) the investment budget and working capital requirements of the Company;

(b) any funding through the increase of the Company's share capital;

(c) any requirement for financing from banks and financial institutions; and

(d) loans from the Shareholders if (i) available financing from banks and financial institutions fall short of the Company's requirement, and/or (ii) if such Shareholders' loans can be made on comparable or better terms than those offered by the banks or financial institutions.

6.3 The Shareholders are to be jointly responsible for arranging further financing for the Company. In the event that any support from the Shareholders (whether by way of loan or security or guarantee) is unavoidable to secure any financing for the Company and/or the Business, or to finance the anticipated projects of the Company, then the Shareholders shall provide such support (whether by way of loan or security or guarantee) in proportion to their prevailing shareholdings in the Company and on a several basis, and each of the Shareholders shall indemnify and keep indemnified the other Shareholders accordingly. Where a loan, security or guarantee is provided by a Shareholder or its related corporation that is greater than the proportion of that Shareholder's shareholding in the Company ("**Financing Shareholder**") as at the date of the loan, security or guarantee (as the case may be), then for so long as such loan, security or guarantee subsists, the Shareholder or Shareholders not providing its or their proportion of the loan, security or guarantee shall provide such security as the Financing Shareholder(s) may require. Such security may be provided by way of the grant of a security over the non-contributing Shareholder's or Shareholders' Shares to the contributing Shareholder(s) in a form and procedure complying with Myanmar applicable laws.

6.4 If a shareholders' loan is requested, including under Clause 6.2(d), the Shareholders shall contribute in proportion to their Shareholding Proportion *inter se*. If any Shareholder fails to contribute its share of such shareholders' loans, the contributing Shareholders shall have the right to make good the shortfall, in which event, the non-contributing Shareholder shall provide such security as the contributing Shareholders may require. Such security may be provided by way of the grant of a security over the non-contributing Shareholders' Shares to the contributing Shareholder in a form and procedure complying with Myanmar applicable laws.

6.5 If a capital call is requested, including a capital call under Clause 6.2(b), and any of the Shareholders do not contribute their proportionate share of capital, the other Shareholders shall have the right to make good the shortfall and subscribe to the corresponding number of Shares on offer on a *pro rata* basis, thereby diluting the non-contributing Shareholder's holding of shares in the Company.

7. THE BUDGET EXERCISE AND THE BUSINESS PLAN

7.1 The Company will undertake two corporate exercises annually. The first being the preparation of the Company's annual budget in January for the current Financial Year; and the second being the revision/update of the annual budget prepared in January of the same Financial Year and the preparation of the Company's "**Business Plan**", both of which shall be completed by end July. The General Manager of the Company shall oversee the preparation of all the foregoing.

7.2 The first Business Plan shall cover the first Financial Year (i.e. FY2018) and the two following Financial Years thereafter (i.e., FY2019 and FY2020), and shall set out the master plan of the Company, its budget outlook and proposed investments. Such Business Plan shall be adopted and approved by the Board as soon as possible after it has been prepared. Subsequent Business Plans prepared in the following Financial Years (e.g., in July of FY2019) shall set out the foregoing, in relation to the three Financial Years (i.e., FY2020, FY2021, and FY2022) following from the Financial Year in which it is prepared (i.e., FY2019).

7.3 All Business Plans must be adopted and approved by the Board.

7.4 The Company shall, and the Shareholders shall procure that the Company shall, submit the following reports for its operations to all Shareholders:

(a) weekly treasury report on loans, cash holdings, etc. as at closing of each Friday (based on reporting formats as advised by the Board from time to time) within such deadlines as advised by the Board from time to time;

(b) monthly management reports comprising of:

   (i) income statement, cash flow statement and balance sheet and business statistics report (including sales volume and utilization) plus analysis of the results compared with the business plan for that year, identifying/explaining variations in sales revenues, costs and other material items (based on reporting formats as advised by the Board from time to time) within eight (8) Business Days of the following month or such deadlines as advised by the Board from time to time;

   (ii) monthly treasury report on loans, cash holdings, etc. as at the closing of the month (based on reporting formats as advised by the Board from time to time) within eight (8) Business Days of the following month or such deadlines as advised by the Board from time to time; and

   (iii) forecasts on current month and the following two months with respect to projected sales revenue, costs, profits and cashflows versus budget, and other material items (based on reporting formats as advised by the Board from time to time);

(c) audited annual financial reports within ninety (90) days of the relevant Financial Year end; and

(d) daily trading reports (based on reporting formats as advised by the Board from time to time).

8. INTELLECTUAL PROPERTY

8.1 The Parties acknowledge that any intellectual property disclosed or permitted for use by any Party in connection with the Business are (and at all times shall be) the property of the relevant Party disclosing it, even if suggestions, comments and/or ideas made by any other Party or the Company are incorporated into such intellectual property or related materials.

8.2 All intellectual property developed by the Company independently of any intellectual property disclosed or permitted for use by any Shareholder shall be owned by the Company and may be used (to the extent permitted by applicable law) by the other Shareholders on such terms to be agreed by the Parties in writing.

8.3 Each of the Parties shall contribute all applicable intellectual property for process technologies that may be required to fulfill the Business Plan. Such intellectual property shall be licensed by each of the Parties or its related corporation to the Company on a non-exclusive basis in respect of and for use within Myanmar only, and within the Business Plan only.

9. ACCOUNTING

9.1 Subject to Clause 9.2, the Company shall at all times maintain accurate and complete accounting and other financial records in accordance with the requirements of all applicable laws and the Myanmar Financial Reporting Standards as well as policies and controls as requested by any Shareholder to satisfy their regulatory requirements. For statutory filing, the Company shall apply the Myanmar Financial Reporting Standards for non-publicly accountable entities.

9.2 The accounts of the Company shall be audited annually by a Board-approved auditing firm.

9.3 Each Shareholder shall have the right to conduct independent audits using internal or external auditors at its own cost, save where there are significant adverse findings, in which case, the cost shall be borne by the Company.

9.4 Each Shareholder and its respective nominated Director(s) shall be allowed access at all reasonable times to examine the books and records of the Company, including but not limited to all financial, operational and management reports.

9.5 The Company shall supply each other Party with the financial information necessary to keep the other Parties informed about how effectively the Business is performing and in particular shall supply each other Party with monthly management accounts of the Company and reports on all substantive matters arising in connection with any activity associated with the Business, to be supplied within eight (8) Business Days of the end of the month to which they relate (the first day being the first day of the following month) and the accounts shall include, in particular, a profit and loss account, a balance sheet and a cashflow statement.

10. COMPLIANCE

10.1 The Parties agree that the Company shall duly comply with:

(a) all applicable tax laws and regulations, and in respect of all taxation for which the Company is or may become liable to account, the Company shall duly and promptly pay such taxation and make such deductions or retentions that it is obliged to make and shall account for such taxation in full to the appropriate taxation authority for all amounts so deducted or retained;

(b) all applicable anti-corruption laws and regulations; and

(c) the safety policies and procedures adopted by the Company from time to time that at a minimum comply with the Shareholders' safety policies and procedures in effect from time to time.

11. DEADLOCK

11.1 At any time when the Shareholders or Directors are unable to resolve any Extended Board Reserved Matter or Restricted Board Reserved Matter or Shareholders' resolutions after having voted on the issue at least twice in a separate, properly convened (with the requisite quorum) Shareholders' meetings or meetings of the Board (as the case may be), or if a meeting of the Board or Shareholders' meeting is adjourned for a lack of quorum after two (2) consecutive attempts, (a "**Deadlock**"), then any Shareholder may convene, and the other Shareholders must, attend, a without prejudice meeting (which may be held by telephone, video conference or similar communication equipment or any other form of audio or audio-visual instantaneous communication by which all persons participating in such teleconference meetings are able to hear and be heard by all other participants) among representatives who shall be the chairman and/or chief executive officers (or such other individual of senior status designated by the chief executive officers) of Wilmar International, U Maung Kyay @ Tee Kar Kway of Staple, and/or Vichai Sriprasert of Riceland (or such other individual designated by Vichai Sriprasert) (as the case may be) ("**Senior Management Meeting**").

11.2 With respect to a Senior Management Meeting:

(a) the Shareholder requesting the Senior Management Meeting must give written notice to the other Shareholders of the time and place for the meeting (which must not be on less than ten (10) Business Days' notice);

(b) the other Shareholder shall ensure that its representatives attend the Senior Management Meeting and that such representatives have authority to negotiate and

settle the matters in dispute and that such representatives shall seek to resolve the Deadlock within sixty (60) days of such Deadlock having arisen; and

(c) if a way to resolve the Deadlock is agreed at a Senior Management Meeting, the Shareholders shall jointly issue a statement setting out the terms of such agreement and each Shareholder shall exercise the voting rights and other powers of control available to it in relation to the Company to procure that the terms of such agreement are implemented and the Company shall do all things within its power to implement such terms.

11.3 While such Deadlock is being resolved, the Company shall be run in line with the last approved Business Plan.

12. RESOLUTION OF DEADLOCK

12.1 For the purposes of complying with these Deadlock procedures, Shareholders which are Affiliates of each other shall together act as a single entity and Shareholder.

12.2 If a Deadlock has arisen under Clause 11, and the Shareholders are unable to resolve the Deadlock at a Senior Management Meeting, then any Shareholder ("**First Shareholder**") may give to the other Shareholders ("**Other Shareholders**") a written notice at any time within ten (10) Business Days after the Senior Management Meeting (or such other date as may be agreed in writing by the Shareholders), offering to sell all of the First Shareholder's Shares on a *pro rata* basis for cash at a price per Share to be mutually agreed between the First Shareholder and any accepting Other Shareholder, each acting reasonably and in good faith, and in any case the aggregate price for the First Shareholder's Shares shall not be less than the aggregate of (i) the original subscription price of the Shares of the First Shareholder and (ii) the Agreed Interest (the "**Deadlock Option**"). If either Other Shareholder declines to purchase the First Shareholder's Shares, such Other Shareholder shall be deemed to have waived all its pre-emptive rights (howsoever arising) to acquire the First Shareholder's Shares proposed to the transferred to the Other Shareholder (that has accepted the First Shareholder's Shares), and that Other Shareholder shall be entitled to accept all and not just its *pro rata* share of the First Shareholder's Shares.

12.3 If:

(a) the Shareholders agree that they will not exercise the Deadlock Option;

(b) none of the Shareholders elect to exercise the Deadlock Option within ten (10) Business Days after the Senior Management Meeting; or

(c) the First Shareholder and any accepting Other Shareholder(s) are unable to agree on the sale price of the Deadlock Option within 60 days of the Senior Management Meeting,

then the Shareholders shall use commercially reasonable efforts to transfer all of their Shares in the Company to a 3rd party transferee within six (6) months of the Senior Management Meeting (or such other period as may be mutually agreed amongst the Shareholders)(the "**Deadlock Transfer Period**"), save that any Shareholder may purchase any asset of the Company that such 3rd party transferee is not willing to acquire, at a price which is mutually agreed amongst the Shareholders (all of whom shall act reasonably and in good faith).

12.4 If the Shareholders fail to transfer all their Shares to a 3rd party transferee by the Deadlock Transfer Period, then the Shareholders shall do all things necessary to wind up and liquidate the Company in accordance with applicable laws.

12.5 A flow diagram of how Deadlocks are resolved through the process in Clauses 11 and 12 are set out in **Schedule 5**.

13. CHANGE OF CONTROL

13.1 If there is a Change of Control of any Shareholder ("**Changed Shareholder**") the Changed Shareholder shall promptly notify the other Shareholders ("**Controlled Shareholders**") in writing of such Change of Control ("**Change of Control Notice**").

13.2 At any time during the period of three (3) months after a Change of Control Notice, any Controlled Shareholder shall have a right to give a notice in writing to the Changed Shareholder and require the Changed Shareholder to purchase all of its Shares ("**Change of Control Put Option**").

13.3 Upon the expiry of such three (3) month period, the Change of Control Put Option shall lapse if not previously exercised.

13.4 The exercise of the Change of Control Put Option shall not be revocable by the Controlled Shareholder exercising the same otherwise than with the consent in writing of the Changed Shareholder. Upon service of the Change of Control Put Option, the Changed Shareholder shall become bound to buy all of the Shares of the Controlled Shareholder and the price at which such purchase shall take place shall be (i) the aggregate of the original subscription price of the Controlled Shareholders' Shares and the Agreed Interest deemed to have accrued thereon, or (ii) the Fair Market Value of such Shares plus a premium of 15%, whichever is the higher.

13.5 Completion of the purchase pursuant to the Change of Control Put Option shall take place in accordance with Clause 16.

14. TRANSFER OF SHARES

14.1 Save as provided in Clause 12 and Clause 15, and subject to Clause 14.9, no Shareholder shall transfer, grant any security interest over, or otherwise dispose of or give any person any rights in or over, any share or interest in any Share without written consent of the other Shareholders (such consent not to be unreasonably withheld or delayed).

14.2 Subject to Clause 14.1 and Clause 14.9, a Shareholder may transfer all of its Shares (and not some only) to any person, other than a Competitor of the other Shareholders ("**Continuing Shareholders**"), for cash if the Shareholder follows the steps in this Clause.

14.3 The Shareholder wishing to transfer all of its Shares ("**Seller**") shall give an irrevocable notice ("**Transfer Notice**") to the Continuing Shareholders of the details of the proposed transfer including, in particular, the identity of the buyer and the price of the Shares.

14.4 If more than one (1) Continuing Shareholder gives notice to the Seller within twenty-eight (28) days of receiving the Transfer Notice (the first day being the day after the Continuing Shareholders receive the Transfer Notice) that it wishes to buy the Seller's Shares such Continuing Shareholders shall have the right to do so on a *pro rata* basis at the price specified in the Transfer Notice.

14.5 If only one Continuing Shareholder gives notice to the Seller within twenty-eight (28) days of receiving the Transfer Notice (the first day being the day after that Continuing Shareholder receives the Transfer Notice) that it wishes to buy all of the Seller's Shares, then such Continuing Shareholder shall have the right to do so at the price specified in the Transfer Notice.

14.6 Each Continuing Shareholder is bound to buy some or all of the Seller's Shares when it gives notice to the Seller under Clauses 14.4 and 14.5 (as the case may be) that it wishes to do so.

14.7 If, at the expiry of the period specified in Clauses 14.4 and 14.5 (as the case may be), no Continuing Shareholder has notified the Seller that it wants to buy some or all of the Shares, the Seller may transfer all of its Shares (and not some only) to the buyer identified in the

Transfer Notice at a price not less than the price specified in that notice provided that it does so within six (6) months of the expiry of the period specified in Clause 14.4.

14.8 The Seller shall procure that, in relation to the Shares being sold, any buyer of the Shares who is not a Party to this Agreement shall enter into an Adherence Agreement.

14.9 For the avoidance of doubt, notwithstanding any provision in this Agreement, any Shareholder shall be entitled at any time to transfer any or all of its Shares to any wholly-owned Subsidiary, and in the case of:

(a) Wilmar, to any wholly-owned Subsidiary of Wilmar International;

(b) Staple, to Resources Group Commercial Company Limited or any of its wholly-owned Subsidiaries; and

(c) Riceland, to any wholly-owned Subsidiary of Riceland International Limited,

provided that:

(i) the transferring Shareholder gives prior written notice of the transfer to the other Shareholders;

(ii) the transferee executes an Adherence Agreement in respect of the transferred Shares; and

(iii) if the transferee will cease to be a wholly-owned Subsidiary of that Shareholder (or in the case of Wilmar and Riceland, will cease to be a wholly-owned Subsidiary of Wilmar International and Riceland International Limited, respectively), the Shareholder shall procure that the transferee shall before such cessation, re-transfer such Shares to that Shareholder with all costs borne by that Shareholder.

14.10 Completion of the sale and purchase of Shares under this Clause 14 shall take place in accordance with Clause 16.

15. DEFAULT AND TERMINATION

15.1 Except for the provisions which this Clause states shall continue in full force after termination, this Agreement shall terminate:

(a) when all but one (1) Shareholder ceases to hold any Shares;

(b) upon the listing and commencement of trading of the Shares on a recognized stock exchange pursuant to an initial public offering ("**IPO**"); and/or

(c) when a resolution is passed by Shareholders or creditors or an order made by a court or other competent body or person instituting a process that shall lead to the Company being wound up and its assets being distributed among the Company's creditors, shareholders or other contributors.

15.2 The following provisions of this Agreement remain in full force after termination: Clause 1 (*DEFINTIONS* AND INTERPRETATION); Clause 10 (*COMPLIANCE*); this Clause; Clause 21 (*CONFIDENTIALITY AND ANNOUNCEMENTS*); Clause 22 (*CHANGE OF* COMPANY NAME

15.3 If a Shareholder ceases to own at least twenty per cent. (20%) of the Shares, the other Shareholder and the Company agree that the Company will, promptly following the date on which the Shareholder ceases to own at least twenty per cent. (20%) of the Shares, change the

name of the Company to remove any reference to the name of the first-named Shareholder who has ceased to own at least twenty per cent. (20%) of the Shares.

15.4 WHOLE AGREEMENT); Clause 25 (*CHANGES AND WAIVER*); Clause 26 (*COSTS*); Clause 28 (*NOTICE*); Clause 30 (*SEVERANCE*); and Clause 33 (*ARBITRATION, GOVERNING LAW AND JURISDICTION*).

15.5 Where the Shareholders of the Company passed a resolution that the Shares shall be subject to the IPO (if any), the Shareholders shall negotiate in good faith the shareholders' voting agreement, which shall replace this Agreement and shall govern the relationships between the Shareholders in the post IPO period.

15.6 Where the Company is to be wound up and its assets distributed, the Shareholders shall agree a suitable basis for dealing with the interests and assets of the Company and shall endeavour to ensure that:

(a) all existing contracts of the Company are performed to the extent that there are sufficient resources;

(b) the Company shall not enter into any new contractual obligations;

(c) the Company is dissolved and its assets are distributed as soon as practical; and

(d) any assets of the Company shall be distributed among the Shareholders pursuant to the Constitution and the provisions under this Agreement.

15.7 This Agreement shall terminate with respect to a Shareholder (in this Clause referred to as the "**Defaulting Shareholder**"), upon written notice ("**Termination Notice**") to it by the other Shareholder(s) ("**Non-Defaulting Shareholder(s)**"):

(a) if the Defaulting Shareholder is in breach of any of its material obligations hereunder and/or under the Constitution and such breach, if capable of remedy, has not been remedied to the reasonable satisfaction of other Non-Defaulting Shareholder(s) at the expiry of sixty (60) days following written notice to that effect having been served on the Defaulting Shareholder by any of the Non-Defaulting Shareholder(s) indicating the steps required to be taken to remedy the failure during such sixty (60) days period;

(b) if the Defaulting Shareholder shall go into liquidation whether compulsory or voluntary or if a petition shall be presented or an order made from the appointment of an administrator in relation to the Defaulting Shareholder or if a receiver, administrative receiver, judicial manager or manager shall be appointed over any part of the assets or undertaking of the Defaulting Shareholder and such appointment is not revoked within thirty (30) days from the date of such appointment or if any event analogous to any of the foregoing shall occur in any jurisdiction;

(c) if the Defaulting Shareholder shall make a general assignment or any composition or arrangement (save with respect to a non-insolvency related restructuring) with or for the benefit of its creditors; or

(d) if the Defaulting Shareholder shall sell, transfer, lease or otherwise dispose of the whole or substantially the whole of its assets, rights and undertaking.

15.8 If this Agreement is terminated pursuant to Clause 15.7, the Non-Defaulting Shareholder(s), shall (without prejudice to its other rights and remedies) have the right:

(a) to require the Defaulting Shareholder to purchase all of its shares at any time during the period of thirty (30) days from the date of the Termination Notice. Upon the expiry of

such thirty (30) days period, such put option ("**Put Option**") shall lapse if not previously exercised; or

(b) to purchase all, but not less than all, of the Defaulting Shareholder's Shares at any time during the period of thirty (30) days from the date of the Termination Notice. Upon the expiry of such thirty (30) days period, such call option ("**Call Option**") shall lapse if not previously exercised.

15.9 The Put Option and Call Option in favour of the Non-Defaulting Shareholder(s) (hereinafter referred to as the "**Beneficiary**") who served the Termination Notice on the Defaulting Shareholder, shall be exercised by such Beneficiary serving on the Defaulting Shareholder a written notice ("**Default Option Notice**") of its wish to exercise the relevant option. The Default Option Notice shall specify all of the Shares of the Defaulting Shareholder ("**Default Shares**") in respect of which the option is exercised and shall not be revocable by the Beneficiary otherwise than with the consent in writing of the Defaulting Shareholder. Upon service of a Default Option Notice, the Defaulting Shareholder shall become bound to buy or to sell (as the case may be) all of its Shares as specified therein at the price and in accordance with the terms set out in Clause 15.10 and **Schedule 5**. Where there is more than one Beneficiary and both exercise a Call Option, the Defaulting Shareholder's Shares shall be apportioned between the Beneficiaries on a *pro rata* basis, based on their shareholding proportion *inter se*.

15.10 The price at which such purchase or sale shall take place shall be the Fair Market Value of the Default Shares as at the date of the Default Option Notice plus 5% if the Beneficiary exercises the Put Option, or the Fair Market Value of the Default Shares as at the date of the Default Option Notice less 5% if the Beneficiary exercises the Call Option.

15.11 Where there is more than one Beneficiary, and one exercises a Put Option while the other exercises a Call Option, completion of the Put Option must always take place before the Call Option.

15.12 Termination of this Agreement or termination with respect to any Shareholder shall not affect any rights or liabilities that the Parties have accrued under it.

16. COMPLETION OF THE SALE AND PURCHASE OF SHARES IN THE COMPANY

16.1 This Clause applies only to transfers between the Shareholders pursuant to Clause 12 (*RESOLUTION OF DEADLOCK*), Clause 13 (*CHANGE OF CONTROL*), Clause 14 (*TRANSFER OF SHARES*) and Clause 15 (*DEFAULT AND TERMINATION*).

16.2 Save as otherwise set out in this Agreement, the sale of Shares under this Agreement shall complete at the offices of the Company on the 30th day:

(a) after the First Shareholder and the accepting Other Shareholder(s) agree on the sale price under the Deadlock Option;

(b) after the receipt of the Change of Control Put Option under Clause 13.2 and receipt of the Fair Market Value valuation;

(c) after more than one (1) Continuing Shareholder (having received a Transfer Notice) gives notice to the Seller that it wishes to buy some or all of the Seller's Shares under Clause 14.4;

(d) after one (1) Continuing Shareholder (having received a Transfer Notice) gives notice to the Seller that it wishes to buy all of the Seller's Shares under Clause 14.5;

(e) after the expiry of the period specified in Clauses 14.4 and 14.5 (as the case may be), no Continuing Shareholder gives notice to the Seller that it wishes to buy some or all of the Seller's Shares under Clause 14.7; or

(f) after the receipt of the Fair Market Value valuation under Clause 15.10.

16.3 At completion, the Shareholder selling the Shares shall:

(a) transfer the Shares free from all Encumbrances by way of a duly completed share transfer form transferring the legal and beneficial ownership in the Shares to the buyer together with the relevant share certificate and such other documents as the buyer may reasonably require to show good title to the shares or enable it to be registered as the holder of the Shares;

(b) deliver the resignations of any directors appointed by the selling Shareholder to take effect at completion and acknowledging that they have no claims against the Company;

(c) warrant that it has no right to require the Company to issue any share capital or other securities;

(d) warrant that no commitment has been given to create an Encumbrance affecting the Shares being sold (or any unissued shares or other securities of the Company) and that no person has claimed any rights in respect thereof; and

(e) undertake to do all it can, at its own cost, to give the buyer the full legal and beneficial title to the Shares.

16.4 At completion the Shareholder buying the Shares shall pay the purchase price by bank cash transfer to the Shareholder selling the Shares or the seller's lawyers (who have been irrevocably authorised by the seller to receive it).

16.5 At or before completion the Company, the selling Shareholder and the Shareholder buying shall agree to the treatment of any loans (including repayment or assignment) made by the selling Shareholder to the Company (together with any interest accrued thereon) and the Shareholder selling and Shareholder buying shall use their reasonable endeavours to procure that the selling Shareholder is released from any guarantees, security arrangements and other obligations that it has given in respect of the Company and the Business.

16.6 The Shareholders shall procure the registration (subject to due stamping by the buyer or by the seller if a Call Option has been exercised under Clause 15.9) of the transfer of Shares under this Clause and each of them consents to such transfer and registration pursuant to this Agreement and the Constitution.

16.7 The Shares shall be sold with all rights that attach, or may in the future attach, to them (including, in particular, the right to receive all dividends and distributions declared, made or paid on or after the events referred to in Clause 16.2(a) and Clause 16.2(b)).

16.8 The Shareholder buying is not obliged to complete the purchase of any of the Shares being sold unless the purchase of all the relevant Shares subject to the transfer is completed simultaneously.

17. STATUS OF AGREEMENT

17.1 Each Shareholder shall, to the extent that it is able to do so, exercise all its voting rights and other powers in relation to the Company to procure that the provisions of this Agreement are properly and promptly observed and given full force and effect according to the spirit and intention of the agreement.

18. WARRANTIES

18.1 Each Party warrants to each other Party that each of the Warranties is true and accurate as at the date of this Agreement:

(a) it is duly incorporated and is validly existing under the laws of its country of incorporation and have all requisite corporate power and authority necessary to carry on its business as it is now being conducted;

(b) it has the necessary power and authority to enter into and perform this Agreement and each other related document in the Agreed Form to which it is a party;

(c) all actions, conditions and things required to be taken, fulfilled and done (including the obtaining of necessary consents, approvals, authorisations, exemptions, filings, licences, orders, permissions, recordings or registrations) in order:

(i) to enable it lawfully to enter into, exercise its rights and perform and comply with this Agreement and each other related document in the Agreed Form to which it is a party;

(ii) to ensure that its obligations under such documents are valid, legally binding and enforceable; and

(iii) to make such documents admissible as evidence in the courts of Singapore,

have been taken, fulfilled and done; and

(d) the execution, delivery and performance by it of this Agreement shall not result in a material breach of (i) if a corporation, any provision of its constitution; and/or (ii) any order, judgment or decree of any court or governmental authority by which such Party is bound.

18.2 Where any statement in the Warranties is qualified by the expression "to the best of the Party's knowledge" or any similar expression, the statement shall be deemed to include the actual knowledge of the board of directors of the Party in respect of the matter concerned immediately before the date of this Agreement.

18.3 Each of the Warranties is separate and independent.

19. NON-COMPETE UNDERTAKING

19.1 Each Shareholder shall, for the duration of this Agreement, refrain, and shall ensure that each of its Affiliates refrain, from competing, directly or indirectly, with the Business, unless otherwise agreed to in writing between the Shareholders. This undertaking shall be geographically limited to activities in the territory of Myanmar ("**Non-Compete Territory**"). The foregoing shall not apply to any power project that Staple and its Affiliates are engaged in as at the date of this Agreement.

19.2 For the duration of this Agreement each Shareholder shall not, and shall procure that each of its Affiliates shall not, (either on its own account or in conjunction with or on behalf of any other person):

(a) canvass, solicit or approach or cause to be canvassed, solicited or approached any person who maintains a contractual relationship with the Company as a client or customer with respect to the Business, to terminate or discontinue such contractual relationship or to materially reduce the volume of goods or services provided thereunder;

(b) after notice by the Company not to do so, persist in interfering or persist in seeking to interfere with the continuance of supplies to the Company (as the case may be) from any person who has maintained a contractual relationship with the Company as a supplier of goods or services to the Company if such interference causes or would be likely to cause that supplier to cease supplying or materially to reduce its supply of such goods or services to the Company; or

(c) solicit or entice away or attempt to solicit or entice away from the Company any employee of the Company who is employed in a managerial, supervisory, technical or sales capacity by, or engaged as a consultant to, the Company (whether or not such person would commit a breach of contract by reason of leaving such employment or engagement). For the avoidance of doubt, the restriction herein shall, with respect to a Shareholder, not apply to any employee seconded by such Shareholder to the Company, or any person who responds to a general advertisement for recruitment not targeted at any employee of the Company,

(collectively with Clause 19.1, "**Non-Compete Undertaking**").

19.3 Each of the undertakings contained in this Clause 19 is separate and severable and in the event of any such restriction being determined to be unenforceable in whole or in part for any reason, that unenforceability shall not affect the enforceability of the remaining restrictions or (in the case of restrictions unenforceable in part) the remainder of that restriction.

19.4 While the undertakings contained in this Clause 19 are considered by the Shareholders to be reasonable in all the circumstances, it is recognised that restrictions of the nature in question may fail for technical reasons and accordingly it is hereby agreed and declared that if any of such restrictions shall be adjudged to be void as going beyond what is reasonable in all the circumstances for the protection of the interests of the Company but would be valid if part of the wording thereof were deleted or the periods thereof reduced or the range of activities or area dealt with thereby reduced in scope, the said restriction shall apply with such modifications as may be necessary to make it valid and effective. The Parties shall then use all reasonable endeavours to replace the invalid or unenforceable provision(s) by a valid and enforceable substitute provision the effect of which is as close as possible to the intended effect of the invalid or unenforceable provision.

19.5 The Non-Compete Undertaking shall not restrict any of the Shareholders or their respective Affiliates from purchasing and then holding (A) a stake in another company which has other substantial businesses outside the Business and the Non-Compete Territory but holds a stake representing a capital participation of less than 10% in a direct competitor of the Company in the Business in the Non-Compete Territory or (B) a stake representing a capital participation of less than 10% in publicly listed corporations being direct competitors of the Company in the Business in the Non-Compete Territory.

19.6 Notwithstanding the foregoing, nothing in this Clause 19 shall preclude or restrict the relevant Shareholders or their respective Affiliates from (A) canvassing, soliciting or approaching any person with whom it has an existing business relationship, or (B) undertaking any Permitted Transaction during the term of this Agreement.

19.7 "**Permitted Transaction**" shall be any transaction between a third party and any member of (A) the Wilmar Group, (B) the Staple Group, and/or (C) the Riceland Group, (each a "**Competing Shareholder**") which has resulted or may result in the acquisition of any interest in a Competing Business provided that:

(a) where such acquisition has been proposed:

(i) the Competing Shareholder shall within ten (10) days of receiving a written proposal of sufficient detail from a third party in relation to the acquisition by the Competing Shareholder of any interest in a Competing Business (including a non-binding term sheet) that is in the view of the Competing Shareholder of sufficient merit or within ten (10) days of a Competing Shareholder identifying an opportunity to acquire a Competing Business or an interest in a company or group of companies engaged in such Competing Business, whichever occurs first, give a notice ("**Proposal Notice**") to the Company of the details of the proposed acquisition of the Competing Business, including the name, location, purchase price and any key terms and conditions, and the Company shall have the right of first refusal to accept and/or participate in such proposed acquisition on no less favourable terms and conditions as were offered to the Competing Shareholder (but with such modifications as are reasonably required by the Company in light of the characteristics, rights and obligations of the Company, including where necessary, the right of the Company to acquire the Competing Business from the Competing Shareholder at an agreed date after the initial acquisition by the Competing Shareholder of such Competing Business), by serving written notice on the Competing Shareholder at any time during the period of seven (7) days from the date of the Proposal Notice ("**Proposal Exercise Notice**");

(ii) upon the expiry of such seven (7) day period, the Proposal Exercise Notice shall lapse if not previously exercised by the Company, whereupon the Competing Shareholder may proceed to participate in and complete the proposed acquisition of the Competing Business and own and operate the Competing Business as it deems fit; and

(iii) the Proposal Exercise Notice shall not be revocable by the Company otherwise than by serving written notice on the Competing Shareholder that it does not wish to pursue the proposed acquisition of the Competing Business and providing the Competing Shareholder the right to participate in and complete the proposed acquisition of the Competing Business; or

(b) where such acquisition is not permitted to be disclosed under law, the regulations of any applicable securities exchange or contractual constraints and has been completed:

(i) the Competing Shareholder shall within thirty (30) days of completion give a notice ("**Offer Notice**") to the Company of the details of the Competing Business, including the name and location, and the Company shall have the right to require the Competing Shareholder to sell all of its interests in the Competing Business on arm's length terms to the Company, by serving written notice on the Competing Shareholder at any time during the period of sixty (60) days from the date of the Offer Notice ("**Option Exercise Notice**");

(ii) upon the expiry of such sixty (60) day period, the Option Exercise Notice shall lapse if not previously exercised by the Company, whereupon the Competing Shareholder may continue to own and operate the Competing Business as it deems fit; and

(iii) the Option Exercise Notice shall not be revocable by the Company otherwise than with the consent in writing of the Competing Shareholder. Upon service of the Option Exercise Notice, the Company shall become bound to buy all of the interests from the Competing Shareholder in the Competing Business at the higher of Fair Market Value or the consideration paid by the Competing Shareholder for the Competing Business.

19.8 For the avoidance of doubt, the Directors who are nominated by the Competing Shareholder shall be counted into the quorum for any meeting of the Board, but shall not be entitled to vote at any meeting, at which any Permitted Transaction is being discussed and approved and shall do all such acts or things that the Directors who are nominated by the Non-Competing Shareholders may reasonably request to effect any decisions made.

20. CONFLICTS WITH THE CONSTITUTION

20.1 The Shareholders agree that, if and to the extent that the Constitution conflicts with the provisions of this Agreement, this Agreement shall prevail for so long as it is in force to regulate the way in which they exercise their respective voting rights as Shareholders and each Shareholder shall take all such further steps as may be necessary or requisite to ensure that the provisions of this Agreement shall prevail.

20.2 Each Shareholder shall, when necessary, exercise their powers of voting and any other rights and powers they have to amend, waive or suspend a conflicting provision in the Constitution to the extent necessary to permit the Company and their respective businesses to be administered as provided in this Agreement.

21. CONFIDENTIALITY AND ANNOUNCEMENTS

21.1 In this Clause ("**Confidential Information**") means any information:

(a) including all communications amongst the Parties and all information and other material exchanged amongst the Parties which is either marked "confidential" or which concerns the business transactions and/or financial arrangements of the Parties;

(b) which any Party may have or acquire (whether before or after the date of this Agreement) in relation to the customers, business, assets or affairs of the Company and its Subsidiary (including, without limitation, any information provided pursuant to Clause 7);

(c) which any Party or any member of its Group may have or acquire (whether before or after the date of this Agreement) in relation to the customers, business, assets or affairs of any other Party or any member of any other Party's Group, as a consequence of the negotiations relating to this Agreement or the performance of the Agreement; or

(d) which relates to the contents of this Agreement (or any agreement or arrangement entered into pursuant to this Agreement),

but excludes the information in Clause 21.2.

21.2 Information is not Confidential Information if:

(a) it is or becomes public knowledge other than as a direct or indirect result of the information being disclosed in breach of this Agreement;

(b) any Party can establish to the reasonable satisfaction of the other Party that it found out the information from a source not connected with the other relevant Party or its Group and that the source is not under any obligation of confidence in respect of the information;

(c) any Party can establish to the reasonable satisfaction of the other Party that the information was known to the first Party before the date of this Agreement and that it was not under any obligation of confidence in respect of the information;

(d) it was independently developed by a Party without reference to or reliance on the other Party's Confidential Information; or

(e) the Parties agree in writing that it is not confidential.

21.3 Each Party shall at all times use reasonable endeavours to keep confidential (and to ensure that its employees, agents, Subsidiaries and the employees and agents of such Subsidiaries, and the Company (in respect of information specified in Clause 21.1(c) and Clause 21.1(d)) shall keep confidential) any Confidential Information and shall not use or disclose any such confidential information except:

(a) to another member of the Wilmar Group, the Staple Group, or Riceland Group as the case may be, or to a Party's professional advisers where such disclosure is for a purpose related to the operation of this Agreement;

(b) with the written consent of the Company or the Party or any member of its group that the information relates to;

(c) as may be required by law or by the rules of any recognised stock exchange, or governmental or other regulatory body, when the Party concerned shall, if practicable, supply a copy of the required disclosure to the other Parties before it is disclosed and incorporate any amendments or additions reasonably required by the other Parties;

(d) to any tax authority to the extent reasonably required for the purposes of the tax affairs of the Party concerned or any member of its Group; or

(e) if the information comes within the public domain (otherwise than as a result of the breach of this Clause 21.3).

21.4 Each Party shall inform (and shall use reasonable endeavours to procure that any Subsidiary and the Company shall inform) any officer, employee or agent or any professional adviser advising it in relation to the matters referred to in this Agreement, or to whom it provides Confidential Information, that such information is confidential and shall require them:

(a) to keep it confidential; and

(b) not to disclose it to any third party (other than those persons to whom it has already been disclosed in accordance with the terms of this Agreement).

21.5 Upon termination of this Agreement, any Party may demand from the other Parties and the Company the return of any documents containing Confidential Information in relation to the first Party by notice in writing whereupon the other Parties shall (and shall use reasonable endeavours to ensure that their Subsidiaries, and its officers and employees and those of its Subsidiaries and the Company) shall:

(a) return such documents; and

(b) destroy any copies of such documents and any other document or other record reproducing, containing or made from or with reference to the Confidential Information,

(save, in each case, for any submission to or filings with governmental, tax or regulatory authorities). Such return or destruction shall take place as soon as practicable after the receipt of any such notice.

21.6 Subject to Clause 21.3 above, no disclosure or announcement relating to the existence or subject matter of this Agreement shall be made or issued by or on behalf of any Party without the prior written approval of the other Parties, provided that the disclosure or announcement shall so far as is practicable be made after consultation with the other Parties and after taking into account the reasonable requirements of the other Parties as to the contents and manner of making or despatch.

22. CHANGE OF COMPANY NAME

If a Shareholder ceases to own at least twenty per cent. (20%) of the Shares, the other Shareholder and the Company agree that the Company will, promptly following the date on which the Shareholder ceases to own at least twenty per cent. (20%) of the Shares, change the name of the Company to remove any reference to the name of the first-named Shareholder who has ceased to own at least twenty per cent. (20%) of the Shares.

23. WHOLE AGREEMENT

23.1 This Agreement, and any documents referred to in it or executed contemporaneously with it, constitute the whole agreement between the Parties and supersede any arrangements, understanding or previous agreement between them relating to the subject matter they cover.

23.2 Each Party acknowledges that in entering into this Agreement, and any documents referred to in it or executed contemporaneously with it, it does not rely on, and shall have no remedy in respect of, any statement, representation, assurance or warranty of any person other than as expressly set out in this Agreement or those documents.

23.3 Nothing in this Clause operates to limit or exclude any liability for fraud.

24. ASSIGNMENTS

24.1 No person may assign, or grant any security interest over, any of its rights under this Agreement or any document referred to in it without the prior written consent of all the Parties (such consent not to be unreasonably conditioned, withheld or delayed).

24.2 Each person that has rights under this Agreement is acting on its own behalf.

25. CHANGES AND WAIVER

25.1 Any changes or amendments to this Agreement shall be in writing and signed by or on behalf of the Parties.

25.2 A waiver of any right under this Agreement is only effective if it is in writing and it applies only to the person to which the waiver is addressed and the circumstances for which it is given.

25.3 A person that waives a right in relation to one (1) person, or takes or fails to take any action against that person, does not affect its rights against any other person.

26. COSTS

Unless otherwise provided, all costs in connection with the negotiation, preparation, execution and performance of this Agreement, shall be borne by the Party that incurred the costs.

27. THIRD PARTY RIGHTS

This Agreement is made for the benefit of the Parties and their successors-in-title and permitted assigns and is not intended to benefit or be enforceable by anyone else. Any person who is not a Party to this Agreement has no rights under the Contracts (Rights of Third Parties) Act (Cap. 53B) of Singapore to enforce any term of this Agreement.

28. NOTICE

28.1 A notice given under this Agreement:

(a) shall be in writing in the English language (or be accompanied by a properly prepared translation into English);

(b) shall be sent for the attention of the person and to the address given in this Clause (or such other address, e-mail address or person as the Party may notify to the others, such notice to take effect from the notice being served); and

(c) shall be:

(i) delivered personally;

(ii) sent by pre-paid first-class registered post;

(iii) (if the notice is to be served by post outside the country from which it is sent) sent by registered airmail; or

(iv) sent by e-mail.

28.2 The addresses for service of notice are:

(a) Wilmar

Address: 56 Neil Road, Singapore 088830

For the attention of: The Group Legal Counsel

E-mail Address: legal@wilmar.com.sg

(b) Staple

Address: No. 36, Thein Phyu Road, Pazundaung Township, Yangon, Myanmar

For the attention of: U Maung Kyay

E-mail Address: umkyay@gmail.com

(c) Riceland

Address: c/o. 901/15-17 Lakeside Villa 1, Bngna-Trad Road, Bangkaew, Bangplee, Samutprakarn Thailand 10540

For the attention of: Vichai Sriprasert

E-mail Address: riceland@riceland-intl.com

(d) The Company

Address: Plot No. 20 & 21, Thilawa Port Development Zone, Kyauktan Township, Yangon, Myanmar

For the attention of: The General Manager

E-mail Address: sundehai@cn.wilmar-intl.com

28.3 A notice is deemed to have been served:

(a) if delivered personally, at the time of delivery;

(b) in the case of pre-paid first-class post, special delivery or registered post, 72 hours from the date of posting;

(c) in the case of registered airmail, five (5) days from the date of posting;

(d) in the case of e-mail, when such e-mail has actually been transmitted in readable form; and

(e) if deemed receipt under the previous paragraphs of this sub-Clause is not within business hours (meaning 9.00 am to 5.30 pm Monday to Friday on a day that is not a public holiday in the place of receipt), when business next starts in the place of receipt.

28.4 To prove service, it is sufficient to prove, in the case of post, that the envelope containing the notice was properly addressed and posted.

29. INTEREST ON LATE PAYMENT

29.1 Where a sum is required to be paid under this Agreement but is not paid on the date the Parties agreed, the person due to pay the sum shall also pay an amount equal to interest on that sum for the period beginning with that date and ending with the date the sum is paid (and the period shall run after as well as before judgment).

29.2 The rate of interest shall be 5.5% per annum above ICE USD 3 MONTH LIBOR for the time being, it shall accrue on a daily basis and be compounded quarterly.

29.3 This Clause is without prejudice to any claim for interest under the law.

30. SEVERANCE

30.1 If any provision of this Agreement (or part of a provision) is found by any court or administrative body of competent jurisdiction to be invalid, unenforceable or illegal, the other provisions shall remain in force.

30.2 If any invalid, unenforceable or illegal provision would be valid, enforceable or legal if some part of it were deleted or modified, the provision shall apply with whatever modification is necessary to give effect to the commercial intention of the Parties.

31. FURTHER ASSURANCE

Each Party shall promptly execute and deliver all such documents, and do all such things, as the other Parties may from time to time reasonably require for the purpose of giving full effect to the provisions of this Agreement.

32. COUNTERPARTS

This Agreement may be executed in any number of counterparts, each of which is an original and which together have the same effect as if each Party had signed the same document.

33. ARBITRATION, GOVERNING LAW AND JURISDICTION

33.1 Arbitration

Any dispute arising out of or in connection with this Agreement, including any question regarding its existence, validity or termination, shall be referred to and finally resolved by arbitration in Singapore in accordance with the Arbitration Rules of the Singapore International Arbitration Centre ("**SIAC**") for the time being in force, which rules are deemed to be incorporated by reference in this Clause. The arbitration tribunal shall consist of one (1) arbitrator to be appointed by the Chairman of the SIAC. The language of the arbitration shall be English.

33.2 Governing Law and Jurisdiction

The formation, validity, construction and performance of this Agreement shall be governed by the laws of the Republic of Singapore.

[remainder of this page is intentionally left blank]

Schedule 1

Details of the Company

Name of Company:	**WILMAR MYANMAR RICELAND LIMITED**
Registered number:	
Registered office:	Plot No. 20 & 21, Thilawa Port Development Zone, Kyauktan Township, Yangon, Myanmar
Date and place of incorporation:	Myanmar
Initial issued share capital and number of issued shares:	Number of Shares / Percentage of Issued Capital Wilmar 3,000 40% Riceland 3,000 40% Staple 1,500 20% Total 7,500 100%
Directors:	1. Vichai Sriprasert (Riceland Director) 2. Rosarin Sriprasert (Riceland Director) 3. Myint Maw (Staple Director) 4. Kuok Khoon Hong (Wilmar Director) 5. Sun Dehai (Wilmar Director)
Financial year end:	31 March

Schedule 2

Part 1. Restricted Board Reserved Matters

1.01 Material change in the business of the Company, or extension of the physical presence of the Business beyond Myanmar.

1.02 Authorization of, or undertaking of, any share repurchase or buy-back of shares by the Company.

1.03 Any change in the Company's capital structure outside the ordinary course of their business, including without limitation, any placing under option of their shares or other securities whatsoever, and all calls in respect of their securities.

1.04 Subject to any Permitted Transfers, any proposal for the Company's reorganisation, reconstruction, consolidation or the cessation of the whole or any material part of its business or the sale of all or a substantial part of the Company's assets.

Part 2. Restricted Shareholder Reserved Matters

2.01 Amendment of the Constitution of the Company that affect the rights attached to any class of shares therein.

2.02 Issuance of new Shares.

2.03 Authorization of, or undertaking of, any reduction of capital by the Company.

2.04 Subject to any Permitted Transfers, any proposal for the Company's amalgamation, merger, division, liquidation, the winding-up or change of its corporate form.

Part 3. Extended Board Reserved Matters

3.01 Includes all Restricted Board Reserved Matters.

3.02 Declaring or paying any distribution or redemption inconsistent with the Company's Constitution.

3.03 Any listing of the share capital or other securities of the Company on any securities exchange.

3.04 Approval of Company's annual budget and the Business Plan.

3.05 Approval of any acquisition or capital expenditure for the Company not provided for in the annual budget or the Business Plan.

3.06 The Company agreeing to procure parent company guarantees from any of its shareholders or giving any guarantee or indemnity, whether in the ordinary course of business or not.

3.07 Any transaction by the Company with any of its shareholders or such shareholder's Affiliates (other than services provided to the Company by such shareholder or such Affiliates on an arm's length basis).

3.08 Change of the Company's accounting policies other than those required from a change in the laws and regulations of Myanmar.

3.09 Approval of any employee incentive scheme, employee interest option plan, profit sharing, bonus or other incentive scheme of the Company.

3.10 Entry by the Company into any arrangements (including any contracts, debt arrangements, Encumbrances and other long-term commitments) outside the ordinary course of business and not provided for in the Business Plan.

Part 4. Extended Shareholder Reserved Matters

4.01 Includes all Restricted Shareholder Reserved Matters.

4.02 Declaring or paying any dividend inconsistent with the Company's Constitution.

4.03 Any change to the name of the Company.

4.04 Change of the auditors of the Company.

4.05 The adoption of the audited accounts of the Company.

4.06 The entry into of any joint venture, partnership, consortium or other similar arrangement.

4.08 The consolidation or amalgamation of the Company with any other company.

4.09 The cessation of any business operation.

4.10 The commencement or settlement of any litigation, arbitration or other proceedings which are material in the context of the Company's business and which do not involve a Shareholder or Director (or former shareholder or Director)

Schedule 3

Form of Adherence Agreement

THIS AGREEMENT is made on the day of

BETWEEN:

(1) [**INSERT NAME AND DETAILS OF NEW SHAREHOLDER**] (the "**New Shareholder**");

(2) **THE PERSONS WHOSE NAMES ARE SET OUT IN THE SCHEDULE TO THIS AGREEMENT** (collectively the "**Current Shareholders**" and individually a "**Current Shareholder**"); and

(3) **WILMAR MYANMAR RICELAND LIMITED**, a company incorporated and existing under the laws of the Republic of the Union of Myanmar and having its registered address at Plot No. 20 & 21, Thilawa Port Development Zone, Kyauktan Township, Yangon, Myanmar ("**Company**").

WHEREAS a joint venture agreement was entered into on **[Insert date]** by and among the Current Shareholders and the Company (the "**Joint Venture Agreement**"), a copy of which the New Shareholder hereby confirms that it has been supplied with and acknowledges the terms therein.

NOW THIS AGREEMENT WITNESSES as follows:

1. In this Agreement, unless the context otherwise requires, words and expressions respectively defined or construed in the Joint Venture Agreement shall have the same meanings when used or referred to herein.

2. With effect from **[Insert date]**, the New Shareholder hereby accedes to and ratifies the Joint Venture Agreement and covenants and agrees with the Current Shareholders and the Company to be bound by the terms of the Joint Venture Agreement as if it had been a Shareholder (as defined in the Joint Venture Agreement) thereto and to duly and punctually perform and discharge all liabilities and obligations whatsoever from time to time to be performed or discharged by it under or by virtue of the Joint Venture Agreement in all respects as if named as a party therein.

3. Each of the Current Shareholders and the Company covenants and agrees that the New Shareholder shall be entitled to all the benefits of the terms and conditions of the Joint Venture Agreement applicable to a Shareholder to the intent and effect that the New Shareholder shall be deemed, with effect from the date on which the New Shareholder is registered as a shareholder of the Company, to be a party to the Joint Venture Agreement.

4. The contact particulars of the New Shareholder for the purposes of Clause 28 (Notices) of the Joint Venture Agreement shall be as follows:

[New Shareholder]

Address : [•]

For the attention of: [•]

E-mail Address: [•]

[with a copy to: [•]

Address: [•]

For the attention of: [•]

E-mail Address: [•]]

5. This Agreement shall hereafter be read and construed in conjunction and as one document with the Joint Venture Agreement and references in the Joint Venture Agreement to "this Agreement", and references in all other instruments and documents executed thereunder or pursuant thereto to the Joint Venture Agreement, shall for all purposes refer to the Joint Venture Agreement incorporating and as supplemented by this Agreement.

6. This Agreement is governed by and construed in accordance with the laws of Singapore.

IN WITNESS OF WHICH this Agreement has been executed by the Parties.

[*where the New Shareholder is an individual*]

Signed Sealed and Delivered by)
[**NAME OF NEW SHAREHOLDER**])
in the presence of:-)

Name of Witness: ____________________
NRIC/Passport No.: ____________________

[where the New Shareholder is a company]

THE COMMON SEAL of)
[**NAME OF NEW SHAREHOLDER**])
was hereunto affixed)
in the presence of:)

____
Director

____
Director/Secretary

[**INSERT SIGNATURE BLOCKS OF CURRENT SHAREHOLDERS**]

Schedule 4

Determination of Fair Market Value

1. The Fair Market Value of the Shares will be determined in accordance with the principles set out below by independent third party valuation consultants appointed as follows:

   (a) each of the Shareholders will appoint one (1) investment bank or accounting firm of international repute with expertise in the agricommodity sector and the capability to perform a valuation of the Shares (each, an "**Initially Agreed Valuer**"); and

   (b) the Initially Agreed Valuers nominated by the Shareholders respectively pursuant to paragraph 1(a) above will be appointed for the purposes of this Schedule.

2. The Initially Agreed Valuers will be each instructed independently to determine the Fair Market Value within forty-five (45) days of their appointment and will each deliver their respective reports simultaneously to the Shareholders and the Board.

3. For the purposes of determining Fair Market Value, the Initially Agreed Valuers (and, to the extent that an Additional Valuation is conducted, the Additional Valuer (as such terms are defined below)) will:

   (a) apply the principles set out below;

   (b) include the value of the business of the Company (and, for the avoidance of doubt, will also include any company in which the Company has a stake as of the determination date) as a whole, including the value of any business conducted with third parties and the value of the Company's assets including cash reserves and investments; and

   (c) not discount in any way as a consequence of (i) the fact that the Shares are not listed on any internationally recognised stock exchange approved by the Shareholders; or (ii) any restrictions on the transfer of the Shares or any Encumbrances that may be created on the Shares.

4. Where an Initially Agreed Valuer or the Additional Valuer submits a range as a valuation, the median of that range will be deemed to be the valuation submitted by such Initially Agreed Valuer or Additional Valuer.

5. Unless there is a Material Discrepancy (as hereinafter defined), the arithmetic mean of the amounts determined by the two or three Initially Agreed Valuers will be the Fair Market Value.

6. In the event that the valuations provided by the Initially Agreed Valuers differ by more than 15% (a "**Material Discrepancy**"), unless the Shareholders agree otherwise, a third valuation will be performed by an investment bank or accounting firm of international repute with expertise in the agricommodity sector and the capability to perform a valuation of the Company appointed either:

   (a) by the mutual agreement of the Shareholders; or

   (b) where the Shareholders cannot agree, by mutual agreement of the Initial Agreed Valuers,

   (the "**Additional Valuer**"; the "**Additional Valuation**"). Where an Additional Valuer is appointed, the Fair Market Value will be the average of the two valuations which are closest together or, where the greatest and the smallest valuations are equidistant as regards the average estimate, the midpoint between such valuations.

7. The Fair Market Value established under Paragraph 5 or 6 of this Schedule, as appropriate, will be final and binding on, and unappealable by, the Shareholders.

8. The Company will provide all assistance reasonably required by the Initially Agreed Valuers in order to enable them to be able to determine the Fair Market Value.

9. Each Shareholder will take into account cost effectiveness in selecting its chosen Initially Agreed Valuer. The costs of undertaking the determination of Fair Market Value in accordance with this Schedule will be borne by the Company.

10. Principles for the computation of the Fair Market Value:

"**Fair Market Value**" means the fair value of the Shares (expressed as an amount in [United States Dollars] per Share) based on the value of the Company (including all assets, liabilities and shareholder loans) based on the following assumptions:

(a) without applying any discount for any breach of this Agreement;

(b) on the basis of a sale and purchase between a willing seller and willing buyer made on commercial terms and on an arm's length basis;

(c) that, if the Company shall at the time of such determination be carrying on business as a going concern, they would continue to do so;

(d) Shareholder loans will be treated as share capital in the valuation of the Company; and

(e) that the Shares are capable of transfer without restriction,

provided that in the case of purchase of the Default Shares, the valuation shall take into account the effect (if any) on the business of the Company of the event of default which has entitled the Beneficiary to serve the Default Option Notice.

When determining the Fair Market Value of the Shares based on the value of the Company as calculated in accordance with the above principles, the below assumptions will apply:

(a) without applying a minority discount or a control premium or a liquidity discount or premium;

(b) that all Shares are capable of transfer without restrictions with all rights and privileges attaching thereto and free from all Encumbrances; and

(c) that no additional or reduced value is attached to any contractual rights provided for in this Agreement.

Schedule 5

Flow diagram of how Deadlock situations are resolved.

2018 05 17_Deadlock
Flow Diagram.pptx

Schedule 6

Summary of options under this Agreement

Issue	**Relevant Clause in this Agreement**	**Trigger Situation**	**Shares Valuation**	**When can the shares be sold?**
Resolution of Deadlock	13.2 Deadlock Option	Deadlock over a Reserved Matter (see **Schedule 2**) and this has been voted on at least twice in a separate, properly convened, Board/Shareholders' meetings or if a meeting of the Board or Shareholders' meeting is adjourned for a lack of quorum after two (2) consecutive attempts	Price shall not be less than the aggregate of the original subscription price of the Shares and the Agreed Interest	Shares can be put after the following period: 10 Business Days (notice period) + 60 days of consultation between the Senior Management
Change of Control	14.2 Change of Control Put Option	Change of Control of any Shareholder	Price shall be the higher of (i) the Fair Market Value plus a premium of 15% or (ii) the aggregate of the original subscription price of the Controlled Shareholders' (i.e., the non-Changed Shareholder) Shares and the Agreed Interest deemed to have accrued thereon	Within 3 months after Change of Control Notice given by the Changed Shareholder.
Default and Termination	16.6 Put and Call Default Option	Default and Termination of any Shareholder	Fair Market Value of the Default Shares as at the date of the Default Option Notice plus 5% if Beneficiary (i.e., the non-breaching shareholder) exercises the Put Option. Or	Within 30 days from date of Termination Notice

Issue	**Relevant Clause in this Agreement**	**Trigger Situation**	**Shares Valuation**	**When can the shares be sold?**
			Fair Market Value of the Default Shares as at the date of the Default Option Notice less 5% if Beneficiary exercises Call Option. Put Option take place before Call Option if both are exercised.	

Execution

In witness whereof, the Parties have caused this Agreement to be signed and delivered as of the date first above written.

SIGNED BY **FOR AND ON BEHALF OF** **WILMAR INVESTMENT HOLDINGS PTE. LTD.**	)))) ____________________ Name: Title:

____

Witness Name:-
Title:

SIGNED BY **FOR AND ON BEHALF OF** **STAPLE FOOD SUPPLY COMPANY LIMITED**	)))) ____________________ Name: Title:

____

Witness Name:-
Title:

SIGNED BY **FOR AND ON BEHALF OF** **RLG HOLDING LIMITED**	)))) ____________________ Name: Title:

____

Witness Name:-
Title:

SIGNED BY)
FOR AND ON BEHALF OF)
WILMAR MYANMAR RICELAND)
LIMITED)

____
Name:
Title:

____
Witness Name:-
Title:

Annex XVII

Social Security & Welfare Plan

Corporate Social Responsibility Programme

Community Development

As a global company, Wilmar's corporate philanthropy program is far reaching and extends around the globe. We believe in building long-term and trusted relationships with surrounding communities, and to this end our program spans China, Singapore, Malaysia, Indonesia and Myanmar amongst other countries.

Our philanthropic and social development efforts focus mainly on education in rural areas, as well as supporting the physically disabled and elderly.

In 2015, Wilmar started to support those in need of artificial limbs in China. 420 artificial limb operations were carried out including 150 out of an initial target of 200 in 2017. The remaining 50 will be completed within the first quarter of 2018, in addition to the 2018 target. To improve the welfare of China's disabled community, we have further provided over 16,000 elderly patients with life-changing cataract operations, and donated 2,500 wheelchairs to those in need. Wilmar also currently supports an old folk's home, orphanage and rehabilitation center for disabled children.

As of June 2018, a total of 31 schools have been set up across rural China since 2007. In Malaysia we have 15 Humana schools in Sabah that provide education to over 1226 students. Humana schools are a product of our cooperation with the Borneo Child Aid Society, and strive to enable the children of Wilmar's migrant workers to further their studies in both Malaysia and Indonesia by providing them with an integrated curriculum and well-rounded education.

<u>Myanmar</u>

Going forward in Myanmar, our focus will be on education and healthcare. We have so far organised a free Eye Disease Treatment program in November 2013 in Meiktila in our efforts to restore sight to the under-privileged. This program provided complimentary eye disease diagnoses to 5,000 patients and corrective operations to 700 in addition to medicine, transportation and meals. In February 2014, we organized our "Wilmar Eye Disease Treatment Donation Drive" in Htigyint Township and Kathar District. During the four-day event, needy patients were provided with eye examinations and minor to major eye operations. A total of 3,073 patients in Meiktila were provided with eye examinations and 432 were operated on.

With regard to education, we intend to provide bursaries for under-privileged high school and middle school students living in the communities around our projects. We believe that by allowing such students to continue their education, their lives and the lives of their families will be improved in the future. In May 2017, Wilmar provided School accessories such as table & chairs, grass cutters, televisions for education support programs, water dispensers, floor mats, cupboards, etc. and constructed a footbridge at Basic Education Primary School (2) Bant Bway Gone, Kyauktan township, Yangon division. Besides these, Wilmar donated edible oils to the said School as part of a donation drive organized by Nuns.

In addition we are rolling out plans to donate purified drinking water in the Mandalay and Sagaing region.

We will continue to focus on education and livelihood programs in Myanmar in the coming years. We plan to contribute CSR funds in rice related sectors such as arranging awareness training / workshop for farmers/ paddy suppliers with respect to support technology such as agri-equipment, good quality fertilizers, seeds, and pesticides. The intention is to promote good agricultural practices in the rice related sector, etc.

We will contribute annually one percent (1%) of our after tax net profit to such CSR efforts.

TO:

The Chairman

Myanmar Investment Commission

No. 1, Thitsar Road, Yankin Township,

Yangon, The Republic of the Union of Myanmar

Wilmar Myanmar Riceland Limited

Social & Welfare Plan

Plan for a pleasant working environment and provision of social welfare for workers of Wilmar Riceland Limited ("Company") located at Plot 20 & 21, Thilawa Port Development Zone, Kyauktan Township, Yangon, Myanmar.

Objective To create a safe and pleasant working environment and provision of social welfare for the workers of the Company ("Workers").

Planning Planning shall be in two parts:

(i) creating a safe and pleasant working environment; and

(ii) provision of social welfare for the Workers.

1. Planning to create a safe and pleasant working environment as follows:-

(a) to ensure adequate fresh air-ventilation of work places through the installation of adequate number of windows, exhaust fans and air-conditioners;

(b) to provide and maintain clean and hygienic separate toilets for male and female Workers. To provide daily sanitation for the toilets;

(c) to have an effective pest control programme;

(d) to set out clear working procedures/rules;

(e) to respect contributions of Workers and recognise their contribution to the Company;

(f) to promote understanding and collaboration amongst the Workers so as to enable them to complete their jobs effectively and efficiently;

(g) to give Workers the chance to raise creative ideas for the development of the Company;

(h) to respect the differences of personal characteristics or identities between Workers; and

(i) to understand the expectations of Workers and the reasons they choose to work in the Company.

2. Planning to provide for Social Welfare for Workers as follows:-

(a) to provide first aid kits and facilities;

(b) to provide Workers with access to qualified health care;

(c) to provide safe drinking water;

(d) to provide prompt access to medical facilities for Workers injured in the course of their work in accordance with applicable labour regulations of the Republic of the Union of Myanmar; and

(e) to engage Workers on employment contracts that comply with the prevailing laws of the Republic of the Union of Myanmar, such as the minimum wages, over-time charges, social insurance etc. for Workers and gazetted holidays according to the Myanmar Official Calendar, as laid down by the relevant Myanmar authorities.

____

[●●]

Director, Wilmar Myanmar Riceland Limited

Date:

Annex XVIII

Environmental and Social Impacts Assessment Report

အစီရင်ခံစာ အကျဉ်းချုပ်

၁။ နိဒါန်း

၁.၁။ စီမံကိန်းအကျဉ်း

စီမံကိန်းခေါင်းစဉ် - သီလဝါဆိပ်ကမ်းအကွက်အမှတ် (၂၀နှင့်၂၁) နှင့် အကွက်အမှတ် ၂၁ နှင့် ၂၂ အကြား သုံးပွင့်ဆိုင်မြေနေရာတွင် ဆန်ကြိတ်ခွဲထုတ်လုပ်သည့် လုပ်ငန်း

စီမံကိန်းပိုင်ရှင် - Wilmar Myanmar Riceland Ltd.

လိပ်စာ - အမှတ်(၅၆)၊ နီးလ်လမ်းမကြီး ၊ စင်ကာပူ၊ စာတိုက်လိပ်စာ ၀၈၈၃၀၀။

၁.၂။ စီမံကိန်းရည်ရွယ်ချက် နှင့် ထုတ်ကုန်ပမာဏ

စီမံကိန်းသည်ဆန်ကြိတ်ခွဲစက်ရုံတည်ဆောက် လည်ပတ်ရန်စီစဉ်ထားပါသည်။ ဆန်ကြိတ်ခွဲစက်ရုံ နှင့် နောက်ထပ်တိုးချဲ့မှု တို့မှာ တစ်နေ့လျှင်မက်ထရစ်တန် ၁၈၀၀ (ဆန်အခြေခံ) နှင့် ဖွဲနဆီထုတ်လုပ်ခြင်းမှာ ၄၀၀ မက်ထရစ်တန် (၃၄၄ မက်ထရစ်တန် (ဖွဲနဖတ်) နှင့် ၅၆ မက်ထရစ်တန် (ဖွဲနဆီ) ထုတ်လုပ်ခြင်း) တို့အတွက် ပုံစံ ထုတ်ထားပါသည်။

၁.၃။ ပတ်ဝန်းကျင်စီမံ ခန့်ခွဲမှု အစီအစဉ် လေ့လာခြင်း အချိန်ဇယား

ပတ်ဝန်းကျင် စီမံခန့်ခွဲမှု လေ့လာခြင်း အချိန်ဇယား ကို ဇယား ၁ တွင် ဖော်ပြထားပါသည်။

ဇယား-၁။ ပတ်ဝန်းကျင် စီမံခန့်ခွဲမှု အစီအစဉ် လေ့လာခြင်း အချိန်ဇယား

အကြောင်းအရာ		အချိန်ဇယား ရက်သတ္တပတ် (ဇူလိုင်-ဩဂုတ်လ) 1	2	3	4	5	6	7	8
ESIA လေ့လာချက်									
၁)	ပတ်ဝန်းကျင်နှင့် လူမှုစီးပွားနှင့် ဆိုင်ရာ အကြောင်းအရာများကို အမျိုးအစား သတ်မှတ်ခြင်းနှင့် ဖော်ထုတ်ခြင်း ဆိုင်ရာ								
	က) ပတ်ဝန်းကျင်နှင့်လူမှုစီးပွား ဆိုင်ရာ အကြောင်းအရာများကို ခွဲထုတ်သတ်မှတ်ခြင်း								
	ခ) ပတ်ဝန်းကျင်ဆိုင်ရာ သတ်မှတ်ချက်များကို ကျင့်သုံးရန် ချမှတ်ခြင်း								
၂)	သတင်းအချက်အလက်များ စုဆောင်းခြင်း								
	က) သက်ဆိုင်ရာအဖွဲ့အစည်းများမှ သတင်းအချက်အလက်များ ပြန်လည်သုံးသပ်ခြင်း နှင့် အကဲဖြတ်ခြင်း								
၃)	အစီရင်ခံစာတင်သွင်းခြင်း နှင့် အဆိုပြုလွှာ စိစစ်အတည်ပြုခြင်း								
	က) MIC သို့ ရေးသားတင်ပြမည့် ပတ်ဝန်းကျင်နှင့် လူမှု ရေးရာ အချက်အလက်များ								
	ခ) အဆိုပြုလွှာ စိစစ်အတည်ပြုခြင်း ဆွေးနွေး၍ အကြံပြုချက်များ								

မှုရင်း။ EMP လေ့လာရေးအဖွဲ့

ပတ်ဝန်းကျင် စီမံခန့်ခွဲမှုအစီအစဉ် (EMP)၊ ကနဦးပတ်ဝန်းကျင်ဆန်းစစ်ခြင်း (IEE) နှင့် ပတ်ဝန်းကျင် ထိခိုက်မှု ဆန်းစစ်ခြင်း (EIA) လုပ်ဆောင်မှုများအား ပြင်ဆင်ရာတွင် လိုအပ်သော အသေးစိတ်တရားဝင် လုပ်ငန်းစဉ်များ ပါဝင်သည့် ပတ်ဝန်းကျင်ထိခိုက်မှု ဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်းများကို ၂၀၁၅ ခုနှစ်၊ ဒီဇင်ဘာလတွင် သယံဇာတနှင့် သဘာဝပတ်ဝန်းကျင် ထိန်းသိမ်းရေး ဝန်ကြီးဌာန (MONREC) မှ ထုတ်ပြန် ကြေညာခဲ့ပြီးဖြစ်ပါသည်။ အခြေခံအားဖြင့် ပတ်ဝန်းကျင် ထိခိုက်မှု ဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်း များတွင် စီမံကိန်းများအား ပဏာမ

စစ်ဆေးခြင်း၊ EIA/ IEE/ EMP လေ့လာချက်များ ဆောင်ရွက်နိုင်ရန်အဆင့်သတ်မှတ်ခြင်း၊ EIA/IEE အစီရင်ခံစာများ၊ ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ် (EMP) အစီရင်ခံစာများ ပြင်ဆင်ခြင်း၊ အများပြည်သူများပူးပေါင်းပါဝင်သော ဆွေးနွေးပွဲများ ကျင်းပခြင်း၊ MONREC မှ EIA/IEE/EMP အစီရင်ခံစာများအား အတည်ပြုခြင်း နှင့် ၎င်းအစီရင်ခံစာ များ အတည်ပြုပြီးသည့်နောက်တွင် စောင့်ကြပ် ကြည့်ရှုမှုလုပ်ငန်းစဉ်များ ဆောင်ရွက်ခြင်း အစရှိသော လုပ်ငန်းများ ပါဝင်ပါသည်။

၁.၄။ ပတ်ဝန်းကျင် စီမံခန့်ခွဲ မှု အစီအစဉ် လေ့လာခြင်း ဆောင်ရွက်မည့်အဖွဲ့အစည်း

ပတ်ဝန်းကျင် စီမံခန့်ခွဲမှုအစီအစဉ် လေ့လာခြင်း ဆောင်ရွက်မည့်အဖွဲ့အစည်း ဖြစ်သည့် မြန်မာခိုအဲ လီမိတက် ၏ လေ့လာရေးအဖွဲ့သတင်းအချက်အလက်အပြည့်အစုံကို ဇယား-၂နှင့် ဇယား-၃ တွင် ဖော်ပြ ထားပါသည်။ ကျွမ်းကျင်သူများ ၏ ကိုယ်ရေးအချက်အလက်ကို နောက်ဆက်တွဲ ၁ တွင် ဖော်ပြထားပါသည်။

ဇယား-၂။ ပတ်ဝန်းကျင် စီမံခန့်ခွဲမှု အစီအစဉ် လေ့လာခြင်း တာဝန်ယူဆောင်ရွက်မည့်အဖွဲ့အစည်း

အဖွဲ့အစည်း အမည်	လိပ်စာ	မှတ်ပုံတင်အမှတ်	လုပ်ငန်းတာဝန်
မြန်မာခိုအဲ အင်တာနေရှင်နယ် လီမိတက် (Myanmar Koei International Ltd)	အမှတ် ၁ အေ/၂၈၊ မြသီတာ အိမ်ရာ၊ (၁၁) ရပ်ကွက်၊ တောင်ဥက္ကလာပမြို့နယ်၊ ရန်ကုန်မြို့ မြန်မာနိုင်ငံ။ Tel: Fax: +၉၅-၁-၈၅၀၀၁၀၇ Email: info@myanmar-koei.com	၀၀၂၄	ပတ်ဝန်းကျင် စီမံခန့်ခွဲမှု အစီအစဉ် လေ့လာမှုအတွက်နည်းပညာ ရှထောင့်ဘက်စုံစီမံခန့်ခွဲမှု

မူရင်း။ EMP လေ့လာရေးအဖွဲ့

ဇယား-၃။ ပတ်ဝန်းကျင် စီမံခန့်ခွဲမှု အစီအစဉ် လေ့လာရေး အဖွဲ့ဝင်များ

အဖွဲ့အစည်း အမည်	အမည်	ရာထူး	ပညာရေးနောက်ခံ	လုပ်သက် အတွေ့အကြုံ
မြန်မာခိုအဲ အင်တာနေရှင်နယ် လီမိတက် (Myanmar Koei International Ltd)	Mr. Atsushi Minami	အဖွဲ့ခေါင်းဆောင်	M.Sc. (Human Environment) B.Sc. (Human Environment)	၁၁ နှစ်
	ဦးခင်မောင်သိန်း	ပတ်ဝန်းကျင်ထိန်းသိမ်းရေး ပညာရှင်	B.Sc. (Physics)	၁၀ နှစ်
	ဒေါ်မေမျိုးမြင့်	ပတ်ဝန်းကျင်ညစ်ညမ်းမှု ထိန်းသိမ်းရေး ပညာရှင်	B.E (Naval Architecture)	၂ နှစ်
	ဒေါ်ခင်စန္ဒီကျော်	ပတ်ဝန်းကျင်ထိန်းသိမ်းရေး နှင့် လူမှုရေးဆိုင်ရာ ပညာရှင်	BE (Chemical)	၆ နှစ်
	ဒေါ်သိမ့်တွယ်တာဦး	အငယ်တန်း ပတ်ဝန်းကျင်ထိန်းသိမ်းရေး နှင့် လူမှုရေးဆိုင်ရာ ပညာရှင်	B.E (Civil) M.E (Geotechnical Engineering)	၁ နှစ်

မူရင်း။ EMP လေ့လာရေးအဖွဲ့

၁.၅။ စီမံကိန်းနောက်ခံ

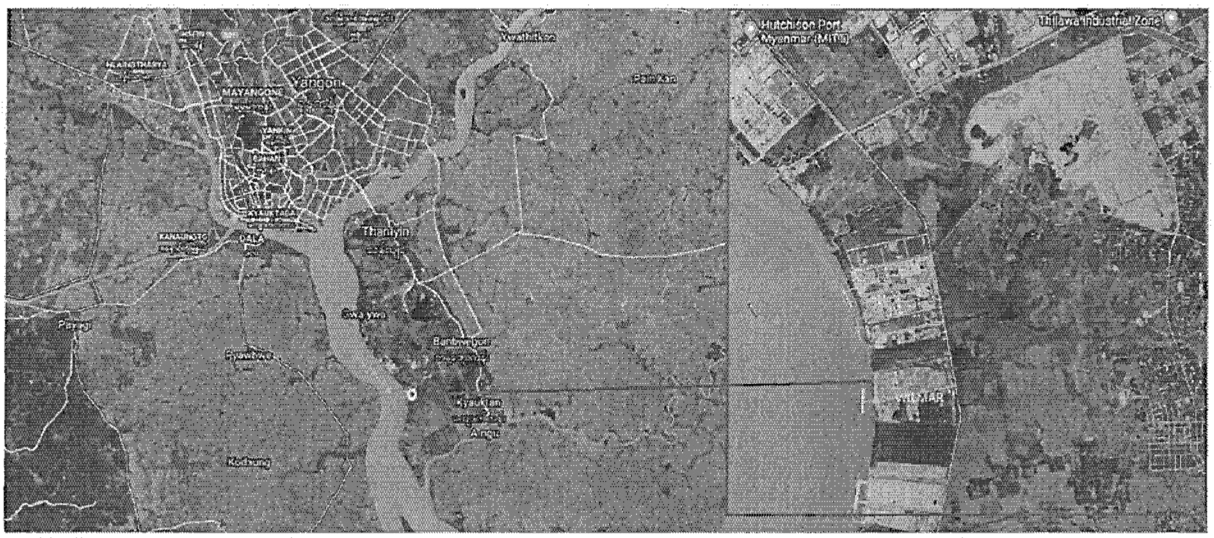
စီမံကိန်းတွင်သတ်မှတ်ထားသည့် နေရာများတွင် အချို့စက်ရုံများတည်ဆောက်ထားပြီး၊ ဆောက်လုပ်ရေး လုပ်ငန်း များ ပြီးသည့်နောက် လုပ်ငန်းလည်ပတ်သည့် အခြေခံ အဆောက်အဦးများဖွံ့ဖြိုးပြီး ဖြစ်ပါသည်။ ဖွံ့ဖြိုးလာမည့် အခြေခံ

အဆောက်အအုံများတွင်ဘက်စုံသုံးဆိပ်ခံတံတား၊ ကွန်ကရစ်ခင်းထားသည့် ဧရိယာများ၊ ပင်မရေမြောင်းစနစ် ပါဝင်သည့် စွန့်ပစ်ရေမြောင်းစနစ်၊ အတွင်းလမ်းများ ပတ်လည်ကာရံထားသော နံရံများပါဝင်ပါသည်။ စီမံကိန်း၏ အခြေခံ အဆောက် အအုံ ဖွံ့ဖြိုးမှု ပတ်ဝန်းကျင်နှင့်လူမှုဝန်းကျင်ဆိုင်ရာ ထိခိုက်မှုဆန်းစစ်ခြင်းအရ အကဲဖြတ်ခြင်း နှင့် ပတ်ဝန်းကျင်ဆိုင်ရာ ဆုံးရှုံးမှုများအတွက် ပြန်လည်နေရာချထားရေး အစီအစဉ် တို့ကို ယခင်က ပြုလုပ်ပြီး ဖြစ်ပါသည်။

၂။ စီမံကိန်း အကြောင်းအရာ

၂.၁။ စီမံကိန်း တည်နေရာ

အဆိုပါ စီမံကိန်းသည် သီလဝါဆိပ်ကမ်း အကွက် အမှတ် (၂၀) နှင့် (၂၁) နှင့် အကွက် အမှတ် (၂၁) နှင့် (၂၂) အကြား သုံးပွင့်ဆိုင် မြေနေရာ၊ ကျောက်တန်းမြို့နယ်၊ ရန်ကုန်တိုင်း နှင့် ရန်ကုန်မြစ်၏ အရှေ့ဘက်ကမ်း တစ်လျှောက်တွင် တည်ရှိပါသည်။ အဆိုပါ စီမံကိန်း ဧရိယာသည် အကွက် အမှတ် (၂၀) နှင့် (၂၁) တွင် ၃၀ ဟက်တာနှင့် အကွက် အမှတ် (၂၁) နှင့် (၂၂) အကြား သုံးပွင့်ဆိုင် မြေနေရာ၌ ၁၀.၅၂ ဟက်တာ အားဖြင့် စုစုပေါင်း ၄၀.၅၂ ဟက်တာတွင် ၂.၉၉ ဟက်တာ (၇.၄ ဧက) ပါဝင်ပါသည်။ စီမံကိန်း၏ တည်နေရာကို ပုံ - ၁ တွင် ဖော်ပြထားပါသည်။

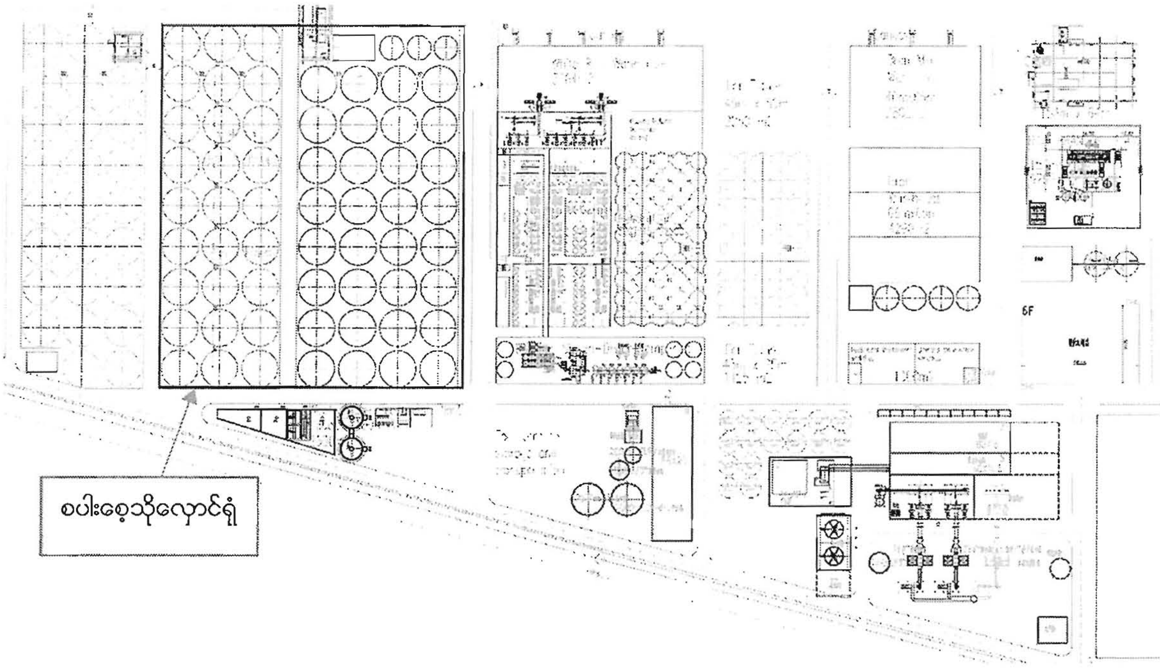


မှုရင်း။ Wilmar Myanmar Riceland Ltd.

ပုံ-၁။ သီလဝါဆိပ်ကမ်း၌ တည်ရှိသော စီမံကိန်းဧရိယာ၏ တည်နေရာ ပြပုံ

၂.၂။ စီမံကိန်း ပုံစံ ပြပုံ

ဆန်စက်စက်ရုံ စီမံကိန်းတွင် ပါဝင်သော လုပ်ငန်းများ၏ တည်နေရာပြပုံကို ပုံ-၂ တွင် ပြသထားပါသည်။



မူရင်း။ Wilmar Myanmar Riceland Ltd.

ပုံ-၂။ စီမံကိန်း လုပ်ငန်းများ ပြပုံ

၂.၃။ စီမံကိန်း အစီအစဉ်

အဆိုပါ စီမံကိန်းကို ၂၀၁၈ ခုနှစ် နိုဝင်ဘာလမှ ၂၀၂၀ နိုဝင်ဘာလ အထိ ဆောက်လုပ်ရန် မျှော်မှန်းထားပါသည်။ စီမံကိန်း၏ ကနဦးစီမံကိန်း အချိန်ဇယားအား အောက်ပါ ဇယား-၄ တွင်ဖော်ပြထားပါသည်။

ဇယား-၄ စီမံကိန်း၏ကနဦး အချိန်ဇယား

နှစ်အလိုက်ဆောင်ရွက်သွားမည့် လုပ်ငန်းစဉ်များ		၂၀၁၈				၂၀၁၉				၂၀၂၀			
		1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th
ပတ်ဝန်းကျင် စီမံခန့်ခွဲမှု ဆန်းစစ်ခြင်း													
စီမံကိန်း	ဆောက်လုပ်ခြင်း												
	လုပ်ငန်းလည်ပတ်ခြင်း												

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၂.၄။ ဝန်ထမ်းခန့်အပ်ရန် အစီအစဉ်

စီမံကိန်းလည်ပတ်မှုတွင် အချိန်ပြည့်ဝန်ထမ်း စုစုပေါင်း ၁၂၃ ဦးခန့်အပ်မည် ဖြစ်သည်။ အသေးစိတ်အချက်အလက်များကို အောက်ပါ ဇယား-၅ တွင် ဖော်ပြထားပါသည်။

ဇယား-၅ ဌာနများမှ ဝန်ထမ်းအရေအတွက်

ဌာန	ရာထူး/အလုပ်အကိုင်	ဝန်ထမ်းအရေအတွက်
	မန်နေဂျာ	၁
ဆန်စက်	အုပ်ချုပ်ရေး	၄
	အင်ဂျင်နီယာ	၁
	ဆန်ကြိတ်ခွဲစက် ကိုင်တွယ်သူ	၁၀
	ဂိုထောင် မန်နေဂျာ	၁
	ရုံးဝန်ထမ်း	၂
	စက်လုပ်ငန်းလည်ပတ်သူ	၃၉
လျှပ်စစ်ဌာန	အုပ်ချုပ်ရေး	၂
	အင်ဂျင်နီယာ	၃
	ကြိတ်ခွဲစက် ကိုင်တွယ်သူ	၃
	စက်လုပ်ငန်းလည်ပတ်သူ	၁၈
ဆီထုတ်လုပ်သည့်ဌာန	အုပ်ချုပ်ရေး	၁
	ကြိတ်ခွဲစက် ကိုင်တွယ်သူ	၃
	စက်လုပ်ငန်းလည်ပတ်သူ	၁၈
အရည်အသွေး ထိန်းချုပ်ရေးဌာန	အုပ်ချုပ်ရေး	၂
	အရည်အသွေး ထိန်းချုပ်သူ	၂
	ရုံးဝန်ထမ်း	၁
	ဓာတ်ခွဲခန်း ပညာရှင်	၁၂
	စုစုပေါင်း	၁၂၃

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၂.၅။ စီမံကိန်း အဆောက်အအုံများ

ပါဝင်သော စီမံကိန်း အဆောက်အအုံများသည် အောက်ပါအတိုင်း ဖြစ်ပါသည်။

၁။ သိုလှောင်ရုံများ
၂။ ဆန်ကြိတ်ခွဲစက်
၃။ ဆန်ပေါင်းခံစက်
၄။ ဖွဲနှဆီထုတ်လုပ်သည့် အဆောက်အအုံ
၅။ ကုန်ထုပ်ပိုးသည့် အဆောက်အအုံ (ဆန်နှင့်ဖွဲနု)

အရန်ပါဝင်သောစီမံကိန်း အဆောက်အုံများသည် အောက်ပါ အတိုင်း ဖြစ်ပါသည်။

၁။ ဘွိုင်လာ (၂) လုံး
၂။ မီးစက် (၂) လုံး

၂.၆။ ကုန်ကြမ်းပစ္စည်းများနှင့် ထုတ်ကုန်များ

ထုတ်လုပ်မှု လုပ်ငန်းစဉ်အားလုံး၏ အဓိက ကုန်ကြမ်းပစ္စည်းမှာ စပါးဖြစ်သည်။ အဆိုပါ စပါးကို ဧရာဝတီတိုင်း ၊ ပဲခူး အရှေ့ပိုင်းနှင့် အနောက်ပိုင်း၊ စစ်ကိုင်းတိုင်း၊ မန္တလေးတိုင်းမှတစ်ဆင့် ကုန်းတွင်းပိုင်းရေလမ်းကြောင်း သို့မဟုတ် ရထား/ထရပ်ကားဖြင့် သီလဝါသို့ သယ်ယူပို့ဆောင်ပါလိမ့်မည်။ စပါးနေ့စဉ်အသုံးပြုမှု ပမာဏမှာ ၁၈၀၀ တန်ချိန် ရှိလိမ့်မည်။

ထုတ်ကုန်များနှင့် ထုပ်ပိုးမှုပုံစံများကို အောက်ပါ ဇယား-၆တွင် ဖော်ပြထားပါသည်။

ဇယား ၆။ ကုန်ကြမ်းပစ္စည်းများ နှင့် ထုတ်ကုန်များ

ကုန်ကြမ်း ပစ္စည်းများ	ထုတ်ကုန်များနှင့် ထုပ်ပိုးမှုပုံစံ		
	ထုတ်ကုန်များ	တန်ချိန်ဖြင့် သယ်ပို့ခြင်း	ထုပ်ပိုးမှု ပုံစံ
စပါးစေ့	ဆန်ဖြူနှင့် ဆန်အကျိုးအကြေများ	တန်ချိန်ဖြင့်	အိတ်အရွယ်မျိုးစုံ (PP, PE နှင့် စာရွက်ဖြင့် ပြုလုပ်ထားသော)
	ပေါင်းခံဆန်နှင့် ပေါင်းခံဆန် အကျိုးအကြေများ	တန်ချိန်ဖြင့်	အိတ်အရွယ်မျိုးစုံ (PP, PE နှင့် စာရွက်ဖြင့် ပြုလုပ်ထားသော)
	ဖွဲနုဆီ	တန်ချိန်ဖြင့်	အိတ်အရွယ်မျိုးစုံ (PP, PE နှင့် စာရွက်ဖြင့် ပြုလုပ်ထားသော)
	အဆီထုတ်ပြီးသော ဖွဲနု	တန်ချိန်ဖြင့်	အိတ်အရွယ်မျိုးစုံ (PP, PE နှင့် စာရွက်ဖြင့် ပြုလုပ်ထားသော)

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International Rice Research Institute (IRRI) က တည်ထောင်ထားသော Rice Knowledge Bank ၏ သတင်းအချက်အလက်များအရ စပါးအမျိုးအစားအများစု၏ ၂၀% သည် စပါးခွံ၊ ၁၁%သည် ဖွဲနုအလွှာဖြစ်ပြီး ၆၉% သည် ဆန်စေ့ ဖြစ်သည်။

၂.၇။ သိုလှောင်ရုံများ

ထုတ်လုပ်ရေးလုပ်ငန်းတွင် အသုံးပြုမည့် အဓိက ကုန်ကြမ်းပစ္စည်းဖြစ်သော စပါးစေ့ကို သံမဏိ သိုလှောင်ကျီများတွင် သိုလှောင်ထားရှိမည်ဖြစ်သည်။ အပိုင်း(၁)တွင် သံမဏိ သိုလှောင်ကျီ ၂၇ခု ထားရှိပြီး အပိုင်း(၂)တွင် သံမဏိ သိုလှောင်ကျီ ၃၂ခု ထားရှိမည်ဖြစ်သည်။ တစ်ခုစီတွင် စပါး တန်၃၀၀၀ကို သိုလှောင်နိုင်မည်ဖြစ်သည်။ စုစုပေါင်းသိုလှောင်နိုင်သည့် ခန့်မှန်းထားသော ပမာဏသည် ၁၇၇၀၀၀ တန် ဖြစ်မည်။ စပါးခွံတန်၂၀၀ သိုလှောင်နိုင်သည့် သိုလှောင်ကျီ ၁၆ခု (စုစုပေါင်း တန် ၃၂၀၀) နှင့် ဖွဲနု တန် ၅၀၀ သိုလှောင်နိုင်သည့် သိုလှောင်ကျီ ၄ခု (စုစုပေါင်း ၂၀၀၀တန်) ထားရှိမည်။ ဓာတုပစ္စည်းများကို ဓာတ်ခွဲခန်းတွင် ထားရှိပါမည်။

ဇယား ၇။ သိုလှောင်မည့်နေရာ စာရင်း

စဉ်။	သိုလှောင်မည့် ဧရိယာ	အရွယ်အစား
၁။	ဆန်ဖြူသိုလှောင်ရုံ	၃၂၆၄ စတုရန်းမီတာ
၂။	ထုပ်ပိုးသည့် ပစ္စည်းများသိုလှောင်ရုံ	၈၁၀ စတုရန်းမီတာ
၃။	ဖွဲစာသိုလှောင်ရုံ	၂၆၀၀ စတုရန်းမီတာ
၄။	ဖွဲနုသိုလှောင်ရုံ	၄၂၉၀ စတုရန်းမီတာ

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၂.၈။ အရန် အဆောက်အအုံများ

ဘွိုင်လာများ၏ အချက်အလက်များကို အောက်ပါ ဇယား ၈ တွင် ဖော်ပြထားပါသည်။

ဇယား ၈။ ဘွိုင်လာများ၏ အချက်အလက်များ

ဘွိုင်လာ အမျိုးအစား	Circulating fluidized bed (CFB)
ဘွိုင်လာ အရေအတွက်	၂ လုံး
ဘွိုင်လာ၏ ပမာဏ (Boiler Capacity)	တစ်နာရီ တန် ၅၀
လောင်စာ အမျိုးအစား	စပါးခွံနှင့် အုန်းခွံများ
စပါးခွံသုံးစွဲမှု	တစ်နှစ်လျှင် တန်ချိန် ၁၃၂,၀၀၀

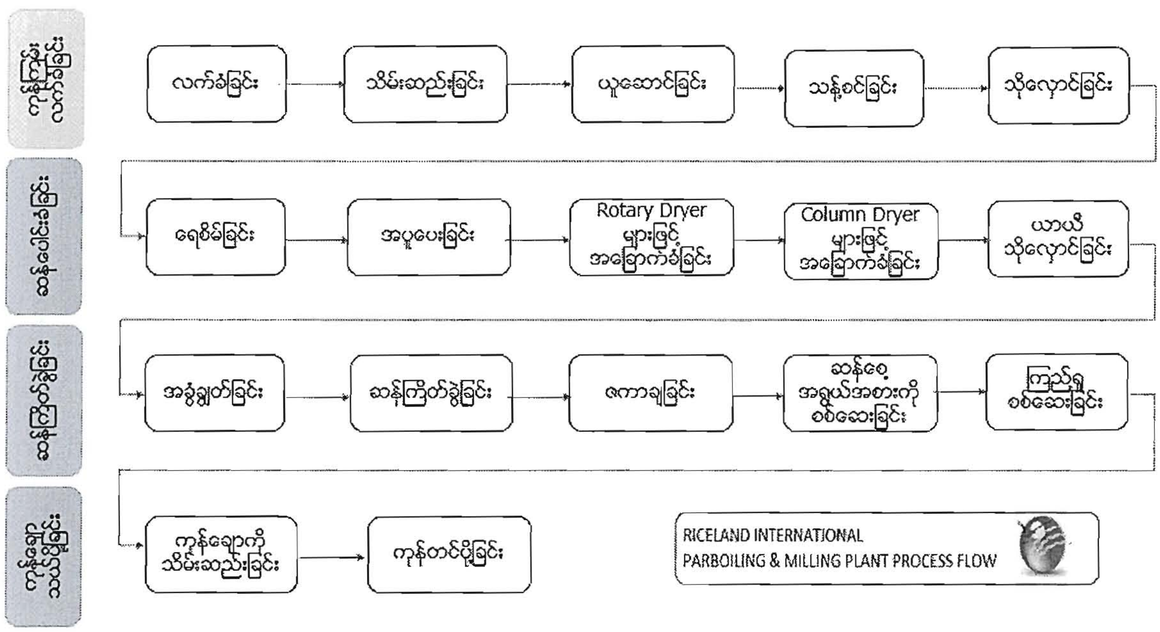
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၂.၉။ ထုတ်လုပ်မှု လုပ်ငန်းစဉ်

၁) ဆန်ပေါင်းခံခြင်း (Parboiling) နှင့် ဆန်ကြိတ်ခွဲခြင်း (Milling)

ဆန်ပေါင်းခံခြင်း

ဆန်ပေါင်းခံခြင်းသည် ဆန်စေ့ကို ရေနွေးငွေ့ဖြင့် ပေါင်းခံခြင်း ဖြစ်သည်။ ဆန်ပေါင်းခံခြင်း လုပ်ငန်းတွင် နေရာအနှံ့အပြားမှ ရရှိလာသော စပါးစေ့များကို သိမ်းဆည်းပြီးနောက် ကနဦး သန့်စင်ခြင်း ပြုလုပ်ပါသည်။ ထို့နောက် စပါးစေ့များကို ၆၀ မှ ၇၀ ဒီဂရီ ဆဲစီးယပ်စ်ရှိသော ရေနွေးတွင် ၄ နာရီကြာ စိမ်ကာ ရေစစ်ပါသည်။ ရေနွေးနှင့် ပေါင်းခံထားသော စပါးစေ့များကို ယာယီ ပုံးများတွင် ထားကာ အခြောက်ခံပါသည်။ ထို့နောက် ဆန်ဖြူကို ရရန် ဆန်ကြိတ်ခွဲသည့် နည်းအတိုင်း ဆက်လက် လုပ်ဆောင်ရပါသည်။ ဆန်ပေါင်းခံခြင်း လုပ်ငန်းစဉ်များသည် အောက်ပါ ပုံ-၃ တွင် ဖော်ပြထားသည့်အတိုင်း ဖြစ်ပါသည်။



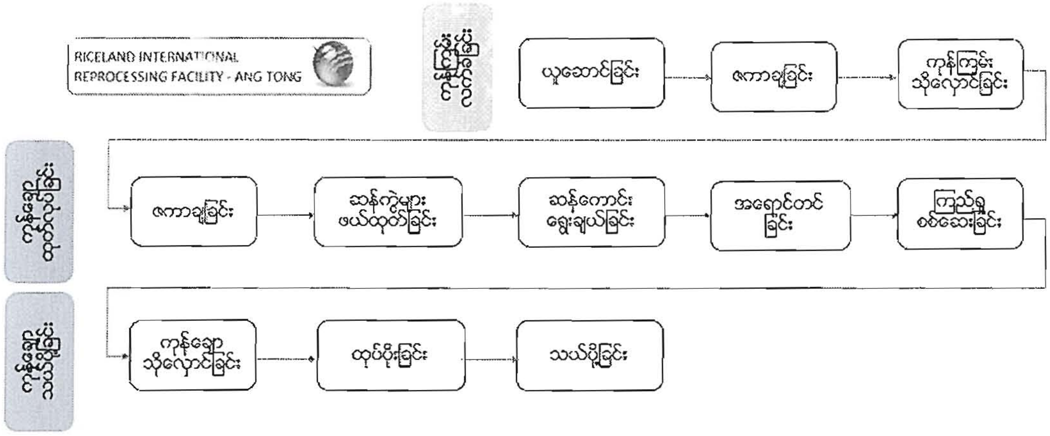
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ပုံ- ၃။ ကုန်ကြမ်းလက်ခံခြင်း၊ ဆန်ပေါင်းခံခြင်းနှင့် ဆန်ကြိတ်ခွဲခြင်း လုပ်ငန်းစဉ်များ ပြပုံ

ဆန်ကြိတ်ခွဲခြင်း (ဆန်ဖြူနှင့် ပေါင်းခံဆန်အတွက်)

ယာယီသိုလှောင်ရုံများတွင် သိုလှောင်ထားသော စပါးစေ့များကို စပါးခွံချွတ်ကာ ဆန်ညိုကို ရယူပါသည်။ ဆန်ညိုကို အဆင့် ၃ ဆင့်ဖြင့် ဖြူဖွေးသွားအောင် ပြုလုပ်ပြီးနောက် ကျိုးကြေသွားသော ဆန်များကို ဖယ်ထုတ် ပါသည်။

ဆန်အကောင်းများမှ ဆန်ကွဲများကို စက်ပစ္စည်းဖြင့် ခွဲခြားပြီး အရောင်တင်ပြီးနောက် ထုပ်ပိုးကာ သိုလှောင်ရုံတွင် သိမ်းဆည်းပါသည်။ ဆန်ကြိတ်ခွဲခြင်းအတွက် လုပ်ငန်းစဉ်များကို အောက်ပါ ပုံ-၄ တွင် ဖော်ပြထားပါသည်။



မူရင်း။ Wilmar Myanmar Riceland Ltd.

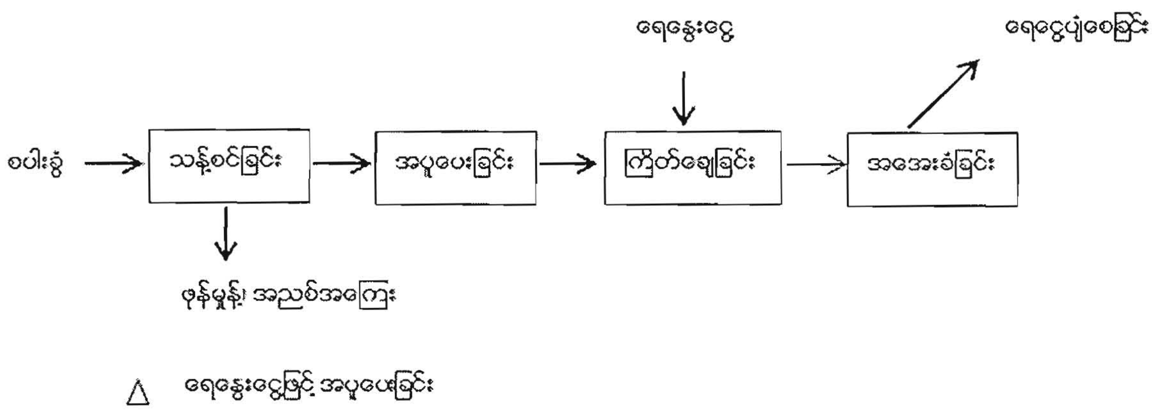
ပုံ- ၄။ ကုန်ကြမ်းလက်ခံခြင်း၊ ဆန်ပေါင်းခံခြင်းနှင့် ဆန်ကြိတ်ခွဲခြင်း လုပ်ငန်းစဉ်များ ပြပုံ

၂) ဖွဲနုဆီ ထုတ်ယူခြင်း (Rice Bran Oil Extraction)

ဆန်ပေါင်းခံခြင်းနှင့် ကြိတ်ခွဲခြင်းလုပ်ငန်းမှ ဖွဲနုထုတ်လုပ်ခြင်းတွင် ဖွဲနုဆီကို တစ်နေ့လျှင်မက်ထရစ်တန်၄၀၀ မက်ထရစ်တန် ထုတ်လုပ်မည်။

(၁) ဖွဲနုဖတ်ကြိတ်ချေခြင်း

လုပ်ငန်းစဉ် အဆင့်ဆင့်: ဖွဲနုများကို မကောင်းသော ဖွဲနု၊ indicaဆန်နှင့် အခြားအညစ်အကြေးများကိုဖယ်ရှားရန် တရုတ်ပြည်ရှိ အဆင့်မြင့်ပြီး ကောင်းမွန်သော တုန်ခါသန့်စင်ပေးသည့် ဆန်ခါဖြင့် သန့်စင်စေသည်။ သန့်စင်ပြီးနောက် ကြိတ်ချေသည်။ လေအေးဖြင့် အအေးခံခြင်းပြုလုပ်ရန် အလုပ်ရုံသို့ပို့ဆောင်သည်။ ဖွဲနုဖတ်ကြိတ်ချေခြင်း လုပ်ငန်းစဉ်အဆင့်ဆင့်ကို ပုံ ၅ တွင်ပြသထားပါသည်။



မူရင်း။ Wilmar Myanmar Riceland Ltd.

ပုံ- ၅။ ဖွဲနုဆီကြိတ်ချေခြင်း လုပ်ငန်းစဉ်

သန့်စင်ခြင်း

ဖွဲနများသည် ရိတ်သိမ်းရာတွင်၊ သယ်ယူရာတွင် နှင့် သိုလှောင်ရာတွင် မသန့်စင်သည့် အရာများ ရောနှောနေတတ်သည်။ သိုလှောင်မှုမပြုခင် ဖွဲနများကို သန့်စင်သော်လည်း အနည်းငယ်ကျန်ရှိနေတတ်သည်။ ထို့ကြောင့် ဆီထုတ်လုပ်ရန် လိုအပ်ချက်များ ရှိနိုင်သည်။ ထို့ကြောင့် ထုတ်လုပ်သည့်စက်ရုံအတွင်း ပို့ဆောင်ပြီးနောက်လည်း ဖွဲနများကို ထပ်မံသန့်စင်ရန်လိုအပ်ပါသည်။ လုပ်ငန်းလိုအပ်ချက် နယ်ပယ်အရ ထုတ်ကုန်များ၏ အရည်အသွေးနှင့် လုပ်ငန်းစဉ်ထိရောက်မှုရှိစေရန် ဖွဲနတွင် မသန့်စင်သည့်အရာများ ပါရှိမှုကို လျှော့ချသင့်ပါသည်။

အပူပေးခြင်း

အပူပေးခြင်းနှင့် ရေအေးဖြင့်အအေးခံခြင်း ရည်ရွယ်ချက်မှာ ဖွဲန၏ စိုထိုင်းဆနှင့် အစိုဓာတ်ကို ထိန်းညှိပေးရန် နှင့် ပွလာအောင်ပြုလုပ်ခြင်းဖြစ်သည်။ အလွန်နိမ့်သော အပူချိန်တွင် ဆီ၏စေးပျစ်မှုများ မြင့်မားပြီး ဆီထွက်ရှိမှု နည်းပါးသည်။ အပူချိန် အလွန်မြင့်လာသောအခါ ဖွဲနဆီထုတ်ခြင်းလုပ်ငန်းစဉ်တွင် ဆီပိုမိုထွက်ရှိပါသည်။ သို့သော် ပရိုတိန်း ဓါတ်ပြယ်သွားခြင်းကြောင့် ဆီများစေးပျစ်မှု မရှိနိုင်တော့ပါ။ ထုတ်ယူထားသောဖွဲန၏ အမှုန်ပမာဏမှာ ကြီးသောကြောင့် အရည်၏ စိမ့်ဝင်နိုင်မှုအပေါ် သက်ရောက်မှုရှိပါသည်။

ကြိတ်ချေခြင်း

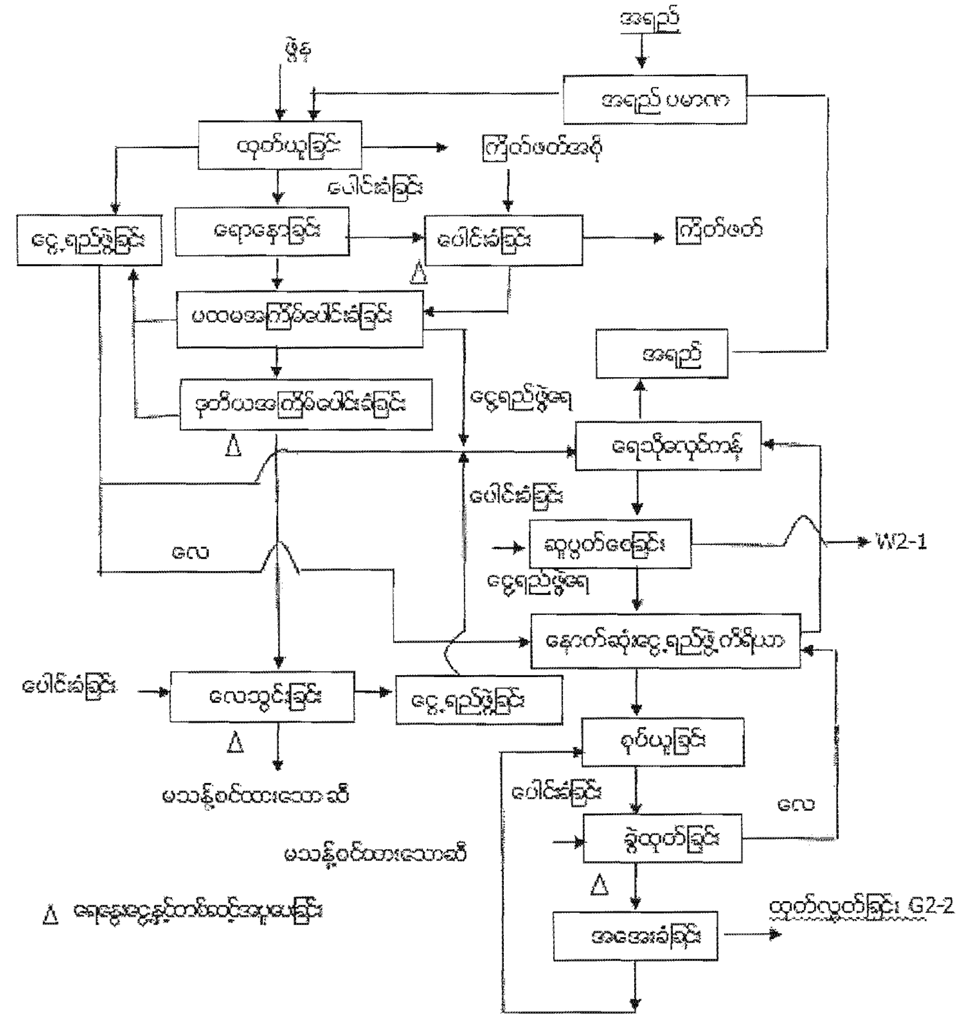
ကြိတ်ချေရခြင်း ရည်ရွယ်ချက်မှာ ဆီ၏ ဆဲလ်တည်ဆောက်မှုကို ဖျက်ဆီးရန်၊ ဆီထုတ်ယူခြင်း သက်ရောက်မှုကို တိုးတက်စေရန်၊ မသန့်စင်ရသေးသောဆီ၏ အရည်အသွေးကို တိုးတက်စေရန်နှင့် ရေဓာတ်ပြန်လည် မဖြည့်တင်းပေးထားသောဖော့စဖိုလစ်ပစ်များ၏ ပမာဏကို လျှော့ကျစေရန် တို့ဖြစ်ပါသည်။ ထိုလုပ်ငန်းစဉ်သည် ရေနွေးငွေ့ကို တိုက်ရိုက်ဖြတ်သန်းသွားပါသည်။

အအေးခံခြင်း

အအေးခံရခြင်း၏ ရည်ရွယ်ချက်မှာ ဆီထုတ်ယူထားသောဖွဲန၏ အပူချိန်နှင့် စိုထိုင်းစ ပမာဏကို ထိန်းညှိရန်ဖြစ်ပါသည်။ ထိုကဲ့သို့ ထိန်းညှိခြင်းဖြင့် ဆီထုတ်ယူခြင်းရှိ လိုအပ်ချက်များကို ပြည့်စုံစေရန်ဖြစ်ပါသည်။

(၂) ဖွဲနဆီထုတ်ယူခြင်း

ကြိုတင်သန့်စင်ထားသော အလုပ်ရုံမှ ထွက်လာသော ဖွဲနဆန်များသည် ကွင်းပုံစံရှိသော (Leacher) ထဲသို့ဝင်ရောက်ပါသည်။ ထို့နောက် n-hexane ကို အသုံးပြု၍ ဆီထုတ်ယူခြင်းဖြင့် ဆန်ဖွဲနမှ neutral ဆီထုတ်ယူပါသည်။ ဆန်ဖွဲနတွင်ကျန်ရှိနေသော ဆီအရည်များကို ဖယ်ထုတ်ရန်အတွက် ဆီထုတ်ယူထားပြီးသား ဆန်ဖွဲနများသည် ငွေ့ရည်ပျံစက်ထဲသို့ ဝင်ပါသည်။ ထို့နောက် အပူချိန်နှင့် စိုထိုင်းစကို ချိန်ညှိခြင်းအားဖြင့် စက်ထဲသို့ထည့်ရမည့် ဆန်ဖွဲနများကို ရရှိပါသည်။ ဖွဲနဆီ နှင့် ဆီအရည်တို့မှဖြစ်ပေါ်လာသော ဆီအရောများကို အစိုင်အခဲ မသန့်စင်မှုများမှ ခွဲထုတ်လိုက်ကာ n-hexane ကို ငွေ့ရည်ပျံစေရန်အတွက် ငွေ့ရည်ပျံခြင်းစနစ်ထဲသို့ ဝင်ရောက်ပါသည်။ ထိုမှ ဖွဲနဆီအကြမ်းရရှိပါသည်။ သန့်စင်ပြီးသား ဖွဲနဆီကို ထုတ်လုပ်ရန်အတွက် ဖွဲနဆီကြမ်းသည် သန့်စင်မှုလုပ်ဆောင်သည့် အလုပ်ရုံသို့ ဝင်ရောက်ပါသည်။ ငွေ့ရည်ပျံစက်နှင့် n-hexane ငွေ့ရည်ပျံခြင်းစနစ်မှ ခွဲထုတ်ထားသော n-hexane အငွေ့ နှင့် အငွေ့အရောတို့ကို တဆင့်ငွေ့ရည်ဖွဲ့ခြင်းနည်းဖြင့် ပြန်လည် အသုံးပြုပါသည်။ ဖွဲနဆီထုတ်လုပ်သည့်လုပ်ငန်းစဉ်ကို ပုံ-၆တွင် ပြသထားပါသည်။



မှူရင်း။ Wilmar Myanmar Riceland Ltd.

ပုံ- ၆။ ဖွဲနုဆီထုတ်လုပ်ခြင်း လုပ်ငန်းစဉ်

ဖွဲနုဆန် ထုတ်ယူခြင်း

ကြိုတင်သန့်စင်ထားသော အလုပ်ရုံမှ ထွက်လာသော ဖွဲနုဆန်များကို စောင်းနေထားသော ရွှေလျားစက်ပေါ် သို့ဖြတ်စေ၍ မလိုအပ်သော အမှုန်အမွှားများကို စစ်ချကာ အလုံပိတ်ထားသော ဝန်တင်လက်လှည့်စက်ထဲသို့ ဝင်စေပါသည်။ ကွင်းပုံစံရှိသော leacher သည် အရည်ပမာဏအနည်းငယ် ထည့်သွင်းခြင်း နှင့် မြင့်မားသော အရည်ပမာဏ အသုံးပြုမှုနှုန်း စသော ဝိသေသလက္ခဏာများရှိ၍ ထုတ်ယူသော အပူချိန်ကို ၅၅ ဒီဂရီ စင်တီဂရိတ်တွင် ထိန်းထားပါသည်။ ရွေ့လျားစနစ်၏ကွင်းကြိုးလုပ်ဆောင်မှုဖြင့် billet ကို ပြင်းအား gradiengt မတူသော ဆီအရောအနှောများဖြင့် အပေါ်မှ အောက်သို့ စက်ဝိုင်းပုံစံဖြင့် ဖြန်းစေပါသည်။ ထို့နောက် လတ်ဆတ်သော n-hexane ဖြန်းခြင်း၊ အစက်ချခြင်းဖြင့် အခြောက်ခံရပါသည်။ ဆီကို ဆီအရောအနှော နှင့် စိုစွတ်သောမှုန့်ညက် အဖြစ်သို့ ထုတ်ယူခွဲထုတ်ခဲ့ပါသည်။

စိုစွတ်သောမှုန့်ညက် ငွေ့ရည်ပျံခြင်းစနစ်

ထုတ်ယူထားသော စိုစွတ်သောမှုန့်ညက်ကို စောင်းနေထားသော ရွှေလျားစက်ပေါ်သို့ဖြတ်စေ၍ မလိုအပ်သော အမှုန်အမွှားများကို စစ်ချခြင်းဖြင့် ထုတ်ယူပါသည်။ ထို့နောက် အဆင့်များစွာဖြင့် မပျော်ဝင်အောင်လုပ်ရန်အတွက် ရေနွေးငွေ့ဖြင့် အပူပေးသောစက်ထဲသို့ ဝင်စေပါသည်။ အပူချိန်ကို ရေနွေးငွေ့ဖြင့် အပူပေးခြင်းဖြင့် ၈၀ မှ ၁၁၅ ဒီဂရီ

စင်တီဂရိတ်အတွင်း ထိန်းထားပါသည်။ မှန့်ညက်ထဲတွင်ရှိသော n-hexane နှင့် ရေ တို့ကို ဖယ်ရှားကာ အအေးခံခဲ့ပါသည်။ မှန့်ညက်၏ စိုထိုင်းဆနှင့် အပူချိန်တို့သည် သိုလှောင်မှုပမာဏ လိုအပ်ချက်များနှင့် ပြည့်စုံရန်လိုအပ်ပါသည်။ မှန့်ညက်ကို ရွှေ့လျားစက်ဖြင့် သိုလှောင်ရုံထဲသို့ ပို့ပါသည်။

ငွေ့ရည်ဖွဲ့ခြင်းလုပ်ငန်းစဉ်မှထွက်လာသော စွန့်ထုတ်ဓာတ်ငွေ့သည် ဆီအရောအနှောများကို ငွေ့ရည်ပျံစေသော ငွေ့ရည်ပျံစက်ထဲသို့ဝင်စေပါသည်။ ဆီအရောအနှောများကို အပူပေးပါသည်။ အချို့သော စွန့်ထုတ်ဓာတ်ငွေ့များကို ရေဖြန်းဝေသောကန်ထဲသို့ ငွေ့ရည်ဖွဲ့စေပါသည်။ အအေးမခံရသေးသော စွန့်ထုတ် ဓာတ်ငွေ့သည် ငွေ့ရည်ဖွဲ့စက်ထဲသို့ဝင်စေကာ နောက်တစ်ကြိမ် အအေးခံစေပါသည်။

ငွေ့ရည်ပျံခြင်းစနစ်

ဆီအရောအနှောများကို ငွေ့ရည်ပျံခြင်းလုပ်ငန်းစဉ်ဆိုသည်မှာ n-hexane အရည်အများစု အငွေ့ပျံပြီး ဆီမှ ခွဲထုတ်ခြင်း ဖြစ်ပါသည်။ အဘယ်ကြောင့်ဆိုသော် ဆီသည် အငွေ့ပျံမလွယ်၍ n-hexane ၏ ရေဆူအမှတ်မှာ နိမ့်ကာ အငွေ့ပျံလွယ်သောကြောင့် ဖြစ်သည်။

ရေစစ်မှ မသန့်စင်မှုများကို ဖယ်ရှားပြီးနောက် ဆီအရောအနှောကို n-hexane ဖြင့် ငွေ့ရည်ပျံစေပါသည်။ အမှုန်အမွှားဖယ်ရှားခြင်းမှ ထွက်ရှိလာသော မသန့်စင်သော ပမာဏ အနည်းငယ်ကို ပြန်လည်ရယူ၍ ခွဲထုတ်မည့်စက်ထဲသို့ (extractor) ဝင်ရောက်စေပါသည်။ ဤလုပ်ငန်းစဉ်တွင် ရှည်လျားသော မြွှန်ပုံသဏ္ဍာန် ငွေ့ရည်ပျံစက် ၂ခုကို အသုံးပြုပါသည်။ ရှည်လျားသော မြွှန်ပုံသဏ္ဍာန် ငွေ့ရည်ပျံစက်တွင် ရှည်လျားသော အပူပေးပိုက်တစ်ခု ပါရှိပါသည်။ အပူကြိုတင်ပေးခြင်းပြီးသွားသောအခါ ဆီအရောအနှောများသည် အပူပေးပိုက်၏အောက်ပိုင်းမှဝင်ရောက်ကာ လျှင်မြန်စွာ ဆူပွက်စေသောကြောင့် ရေနွေးငွေ့ပူဖောင်းများစွာထွက်ရှိပြီး လျင်မြန်စွာအငွေ့ပျံစေပါသည်။ ဆီအရောအနှောသည် ဆူပွက်လာသော ရေနွေးငွေ့များကြောင့် အရည်အလွှာပါးတစ်ခုအဖြစ် မြွှန်၏နံရံတစ်လျှောက်တွင် စီးဆင်းနေပါသည်။ ထိုအချိန်တွင် n-hexane သည် ဆက်လက်၍ အငွေ့ပြန်နေပါသည်။ အလွှာပါးတွင် အပူကူးပြောင်းမှုကြောင့် အငွေ့ပြန်ခြင်းလုပ်ဆောင်နိုင်မှုမှာ မြင့်မားပါသည်။ အငွေ့ပျံထားသော n-hexane သည် မူလ n-hexaneကို ပြန်လည်ရရှိရန် ငွေ့ရည်ဖွဲ့သောစက်ထဲသို့ ဝင်ရောက်သည်။

ရေနွေးငွေ့ဖြင့် ပေါင်းခံခြင်း (Stripping)

ဆောင်ရွက်ပုံမှာ ဆီသည် ရေတွင် ပျော်ဝင်နိုင်ခြင်း မရှိသည့်အတွက် အရည်ဆူမှတ်မြင့်သော ရောနှောဆီပျစ်တွင်းသို့ တိုက်ရိုက် ရေနွေးငွေ့ကို ဖိအား တစ်ခုဖြင့် ထည့်လိုက်ပါသည်။ ထိုအချိန်တွင် တစ်ဆင့်ခံ ရေနွေးငွေ့ (indirect steam) ကို အပူချိန် ၁၁၀ - ၁၁၅ ဒီဂရီ ဆဲလ်စီးယပ်စ်အထိရောက်အောင် အပူပေးပြီး ရောနှောဆီမှ တိုက်ရိုက်ရေနွေးငွေ့ကို ငွေ့ရည် မဖွဲ့အောင် ပြုလုပ်ပါသည်။ အရည်ဆူမှတ်မြင့်မားသော solvent ၏ အရည်ဆူမှတ်သည် တိုက်ရိုက် အငွေ့၏ ဖိအားနှင့် ပြင်ပ ဖိအားတို့၏ ညီမျှခြင်းကြောင့် လျော့ကျသွားပါသည်။ ထုတ်ကုန်ဖြစ်သော ဆီကို ရရှိရန် ပေါင်းခံထားသော အရည်နှင့်အတူ တိုက်ရိုက်အငွေ့ကို ငွေ့ရည်ဖွဲ့ စက်အတွင်းသို့ ပို့ပါသည်။ ငွေ့ရည်ဖွဲ့ခြင်းမရှိသော ဓာတ်ငွေ့ကို နောက်ဆုံး ငွေ့ရည်ဖွဲ့စက်သို့ ပို့ကာ တစ်ဖန် ငွေ့ရည်ဖွဲ့စေပြီး ငွေ့ရည်ဖွဲ့ရာမှ ထွက်ရှိလာသော အရည်ကို solvent ပြန်ရယူခြင်း စနစ်သို့ ပို့ဆောင်ပါသည်။

N-hexane ကို ပြန်လည်ထုတ်ယူခြင်း

စီမံကိန်းတွင် သုံးသော n-hexane ဓာတ်ငွေ့များကို ငွေ့ရည်ဖွဲ့စက်သို့ ပို့ဆောင်ပါသည်။ ငွေ့ရည်ဖွဲ့ရာမှ ထွက်ရှိသော အရည်သည် အဓိကအားဖြင့် n-hexane ရည်နှင့် ရေ ဖြစ်ပါသည်။ n-hexane ရည်နှင့် ရေသည် မရောဘဲ အလွှာ နှစ်ခု အနေနှင့် ရှိနေပါသည်။ n-hexane သီးသန့်ကို ရယူရန် အပူပေးကာ အငွေ့ပျံစေပြီး ငွေ့ရည်ဖွဲ့စက်တွင် အရည်အဖြစ် ရယူပါသည်။ ထွက်ရှိသော စွန့်ထုတ်ရေများကို ကန်တစ်ကန်တွင် ခေတ္တသိုလှောင်ကာ ရေဆိုးသန့်စင်စနစ်သို့ ပို့ဆောင်ပါမည်။

အအေးမခံရသေးသော ဓာတ်ငွေ့သည် ဆီစုပ်ယူသည့် စင်သို့ ရောက်ရှိကာ အော်ဂဲနစ်ပျော်ရည်များ၏

အပြန်အလှန် ပျော်ဝင်နိုင်ခြင်း နိယာမ (Principle of Mutual Solubility of Organic Solvents) အရ အအေးမခံရသေးသော ဓာတ်ငွေ့ တွင် ပါဝင်သော ပျော်ရည်ကို စုပ်ယူပါသည်။ ငွေ့ရည်မဖွဲ့နိုင်သော ဓာတ်ငွေ့ကို အိပ်ဇော်ပိုက်ဖြင့် အပြင်သို့ ထုတ်လွှတ်ပါသည်။ မသန့်စင်ထားသော ဆီနှင့် n-hexane solvent ရည်တို့ကို အပူပေးကာ ခွဲခြားပါသည်။ စက်ရုံတွင် solvent ရည် သိုလှောင်ကန် ရှိပြီး ခွဲခြားလိုက်သော ဆီကို အအေးခံ စက်ကိရိယာမှတစ်ဆင့် ဆီသိုလှောင်သော စနစ်သို့ ပို့ဆောင်ပါသည်။

ဤစီမံကိန်းတွင် သိုလှောင်ထားသော ဖွဲနုဖတ်ကို အလုံပိတ် ပိုက်လိုင်းများဖြင့် ပို့ဆောင်သည် ဖြစ်ရာ ပတ်ဝန်းကျင် လေထုအပေါ် အနည်းဆုံး သက်ရောက်မှု နည်းပါးမည် ဖြစ်ပါသည်။ သို့ရာတွင် ပတ်ဝန်းကျင်ကို ဆိုးကျိုး ဖြစ်စေနိုင်သော ထုတ်လွှတ်မှု မဖြစ်စေရန် ညစ်ညမ်းမှု ထိန်းချုပ်ခြင်းနှင့် စီမံခန့်ခွဲခြင်းကို ပိုကောင်းအောင် ပြုပြီး အနည်းဆုံး ထွက်ရှိခြင်းကို ထိန်း ချုပ်ပါမည်။

၂.၁၀။ ရေမြောင်းနှင့် ရေဆိုးသန့်စင်မှု

နေ့စဉ် ရေသုံးစွဲမှု ပမာဏနှင့် ထွက်ရှိမည့် စွန့်ပစ်ရေပမာဏကို အောက်ပါ ဇယား ၉ တွင် ဖော်ပြထားပါသည်။

ဇယား ၉။ နေ့စဉ် ရေသုံးစွဲမှုနှင့် စွန့်ထုတ်ရေ ပမာဏ

အကြောင်းအရာ	အမျိုးအစား	ပမာဏ	
နေ့စဉ် ရေသုံးစွဲမှု	စုစုပေါင်း	တစ်နေ့ တန်ချိန် ၁၀,၀၀၀	တစ်နေ့ ၁၀,၀၀၀ ကုဗမီတာ
နေ့စဉ် စွန့်ထုတ်ရေ ထွက်ရှိမှု	ထုတ်လုပ်မှု လုပ်ငန်းစဉ်များမှ (စပါး ပေါင်းခံခြင်းနှင့် ဖွဲနုဆီ ထုတ်ယူခြင်း)	တစ်နေ့ တန်ချိန် ၆၀၀	တစ်နေ့ ၆၀၀ ကုဗမီတာ
	အခြား (စားသောက်ဆောင်၊ ရုံးခန်း၊ အိမ်သာ စသဖြင့်)	တစ်နေ့ တန်ချိန် ၂၀	တစ်နေ့ ၂၀ ကုဗမီတာ
	စုစုပေါင်း	တစ်နေ့ တန်ချိန် ၆၂၀	တစ်နေ့ ၆၂၀ ကုဗမီတာ

မှုရင်း။ Wilmar Myanmar Riceland Ltd.

မိလ္လာရေဆိုးများကို ယာယီသိုလှောင်ရန် မိလ္လာကန် ၁၀ ကန် ရှိမည်ဖြစ်ပါသည်။ အဓိက ရေမြောင်း စနစ်များကို ဆောက်လုပ် ပြီး ဖြစ်ပါသည်။ စက်ရုံမှ သန့်စင်ပြီးသောရေများကို ရန်ကုန်မြစ်အတွင်းသို့ စွန့်ထုတ်မည်ဖြစ်ပါသည်။ ရေမြောင်းသို့ မစွန့်ထုတ်မီ လုပ်ငန်းလည်ပတ်မှုနှင့် စက်ပစ္စည်း ပြုပြင်မှုမှ ထွက်ရှိသော စွန့်ထုတ်ရေများကို တစ်နေ့လျှင် ရေဆိုး တန်ချိန် ၁၀၀၀ သန့်စင်နိုင်သော သန့်စင်စနစ်ဖြင့် သန့်စင်မှု ပြုလုပ်မည် ဖြစ်ပါသည်။

၂.၁၁။ လျှပ်စစ်ဓာတ်အား၊ လောင်စာနှင့် ရေသုံးစွဲမှု

စက်ရုံလုပ်ငန်း လည်ပတ်သည့်အဆင့်တွင် သုံးစွဲမည့် လျှပ်စစ်ဓာတ်အား၊ လောင်စာနှင့် ရေ ပမာဏ (ခန့်မှန်း)ကို အောက်ပါ ဇယား ၁၀ တွင် ဖော်ပြထားပါသည်။

ဇယား ၁၀။ လျှပ်စစ်ဓာတ်အား၊ လောင်စာနှင့် ရေသုံးစွဲမှု ခန့်မှန်း ပမာဏ

အရေအတွက်	ယူနစ်	နှစ် ၁ - ၅၀ အထိ
လျှပ်စစ်ဓာတ်အား	ကီလို ဝပ်-နာရီ (kWH)	၄၀,၅၀၀,၀၀၀
လောင်စာ - ဒီဇယ်	လီတာ	၃၆၆,၀၀၀
ရေ	ကုဗ မီတာ	၈၅၂,၀၀၀

မှုရင်း။ Wilmar Myanmar Riceland Ltd.

၃။ ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်း

၃.၁။ အထွေထွေနည်းပညာ

ညစ်ညမ်းမှုဆိုင်ရာအကျိုးသက်ရောက်မှု၊ သဘာဝပတ်ဝန်းကျင်နှင့် လူမှုပတ်ဝန်းကျင်ဆိုင်ရာ သက်ရောက်မှု၊ ကျန်းမာရေးနှင့် ဘေးအန္တရာယ်ကင်းစင်ရေးဆိုင်ရာ သက်ရောက်မှု နှင့် အခြားသက်ရောက်မှုများကို A မှ D အဆင့်ထိ အောက်ဖော်ပြပါ အမှတ်လက္ခဏာများနှင့်အညီ အမျိုးအစားသတ်မှတ်ခန့်မှန်းထားပါသည်။

A+/-: သိသာသော ကောင်းကျိုး၊ ဆိုးကျိုး သက်ရောက်မှု

B+/-: ကောင်းကျိုး၊ဆိုးကျိုး သက်ရောက်မှု အချို့

C+/-: အကျိုးသက်ရောက်မှု မရှင်းလင်းသဖြင့် ထပ်မံလေ့လာသင့်သည်

D: အကျိုးသက်ရောက်မှု မရှိသလောက်ဖြစ်၊ ထပ်မံလေ့လာရန်မလို

၃.၂။ ထိခိုက်မှုဆန်းစစ်ခြင်း ရလဒ် အကျဉ်းချုပ်

ဇယား-၁၁ တွင် လုပ်ငန်းလည်ပတ်သည့်အဆင့်ရှိ ညစ်ညမ်းမှုဆိုင်ရာအကျိုးသက်ရောက်မှု၊ သဘာဝပတ်ဝန်းကျင်နှင့် လူမှုပတ်ဝန်းကျင်ဆိုင်ရာ သက်ရောက်မှု၊ ကျန်းမာရေးနှင့် ဘေးအန္တရာယ်ကင်းစင်ရေးဆိုင်ရာ သက်ရောက်မှု၊ အရေးပေါ် အန္တရာယ်သက်ရောက်မှုများ နှင့် နယ်စပ်ဖြတ်ကျော်သက်ရောက်မှု/ရာသီဥတုပြောင်းလဲမှု တို့အတွက် ထိခိုက်မှုဆန်းစစ်ခြင်း ရလဒ် အကျဉ်းချုပ် အဖြစ်ဖော်ပြထားပါသည်။

ဇယား-၁၁။ ပတ်ဝန်းကျင်ဆိုင်ရာ နှင့် လူမှုရေးဆိုင်ရာ သက်ရောက်မှုများအတွက် လေ့လာဆန်းစစ်ချက်များ၏ ရလဒ်များ

အမျိုးအမည်	သက်ရောက်မှု အမျိုးအစား	EMP အကဲဖြတ်ခြင်း ရလဒ်		စစ်ဆေးပြီး ရရှိသည့် ရလဒ်များ
		ကနဦး စုံစမ်းစစ်ဆေးခြင်း	EMP	
ညစ်ညမ်းမှု	လေထုညစ်ညမ်းမှု	B-	D	ထုတ်လုပ်မှုလုပ်ငန်းစဉ် (ဆန်ကြိတ်ခွဲခြင်း)၊ ကုန်ပစ္စည်းများနှင့် ထုတ်ကုန်များကို ကိုင်တွယ်ခြင်း၊ သယ်ယူပို့ဆောင်ခြင်းများမှ ထွက်သော PM သည် ကောင်းမွန်စွာ ကိုင်တွယ်ခြင်း၊ သင့်တော်သော အစွပ်များ၊ အကာအရံများနှင့် ဇကာအိတ် (Bag Filter) စသော အောက်ပါ ဘေးလျော့ပါးစေရေး နည်းလမ်းများကို လုပ်ဆောင်မှုကြောင့် သိသိသာသာ လျော့နည်းမည် ဖြစ်သည်။ -သိုလှောင်ကျီများကို အလုံပိတ်ထားရှိခြင်း၊ ကုန်ကြမ်း ကုန်ချော အစုအပုံများကို ဖုံးအုပ်ထားခြင်းနှင့် အခြား သိုလှောင်မှု စီမံခန့်ခွဲမှု နည်းလမ်း များ - အလုံပိတ်စနစ်ဖြင့် ကုန်ထုတ်လုပ်မှု ပြုလုပ်ခြင်း -လုံလောက်သော အမြင့်ရှိသော ခေါင်းတိုင်ဖြင့် ဘွိုင်လာမှ စွန့်ထုတ်ဓာတ်ငွေ့များကို အပြင်သို့ ထုတ်လွှတ်ခြင်း -ပတ်ဝန်းကျင် လေထု အရည်အသွေး (SO_2, NO_2, CO, PM_{10}, $PM_{2.5}$) ကို ပုံမှန် စောင့်ကြပ်ကြည့်ရှုမှု ပြုလုပ်ခြင်း ထို့ကြောင့် စီမံကိန်းကြောင့် လေထု အရည်အသွေးအပေါ် ဆိုးကျိုး သက်ရောက်မှုမှာ မပြောပလောက်သော သက်ရောက်မှု ဖြစ်ပါသည်။
	ရေထုညစ်ညမ်းမှု	B-	D	လုပ်ငန်းလည်ပတ်သည့် အဆင့်တွင် မိုးရေ၊ မိလ္လာရေဆိုးနှင့် စက်မှုလုပ်ငန်းသုံး ရေဆိုးများကြောင့် သက်ရောက်မှုများသည် မပြောပလောက်သော သက်ရောက်မှု ဖြစ်ပါသည်။ မိုးရေကို လုပ်ငန်းခွင်သုံး ရေမြောင်းစနစ်ဖြင့် စုဆောင်းကာ အနီးရှိ အများသုံး ရေမြောင်းသို့ စွန့်ထုတ်မည် ဖြစ်ပါသည်။ မိလ္လာရေဆိုးနှင့် စက်ပစ္စည်းများကို ပြုပြင်

အမျိုးအမည်	သက်ရောက်မှု အမျိုးအစား	EMP အကဲဖြတ်ခြင်း ရလဒ်		စစ်ဆေးပြီး ရရှိသည့် ရလဒ်များ
		ကနဦး စုံစမ်း စစ်ဆေးခြင်း	EMP	
				ခြင်း၊ သန့်ရှင်းရေး ပြုလုပ်ခြင်းမှ ထွက်ရှိသော ရေများကို စနစ်တကျ စုဆောင်းကာ ကောင်းမွန်သော မိလ္လာကန်များတွင် သန့်စင်ပါမည်။ ထုတ်လုပ်မှု လုပ်ငန်းစဉ်မှ ထွက်ရှိလာသော စက်မှုလုပ်ငန်းသုံးရေများကို စနစ်တကျ လုံလောက်စွာ သန့်စင်ပါမည်။ အခြား ဘေးလျော့ပါးစေရေး ဆောင်ရွက်ချက်များမှာ -ရေမြောင်းထွက်ပေါက်များတွင် ဆီစစ်များ၊ စကာများကို လိုအပ်သလို တပ်ဆင်ခြင်း -မိုးရေ၏ အရည်အသွေးနှင့် ရေမြောင်းထွက်ပေါက်ရှိ ရေ အရည်အသွေး၊ ထုတ်လွှတ်လိုက်သော နေရာရှိ ရေအရည်အသွေးနှင့် သန့်စင်ပြီးသော ရေ၏ အရည်သွေးစသည်တို့ကို ပုံမှန်စောင့်ကြပ်ကြည့်ရှုမှု ပြုလုပ်ခြင်းတို့ ဖြစ်ပါသည်။ ထို့ကြောင့် စီမံကိန်းကြောင့် ရေအရည်အသွေးအပေါ် ဆိုးကျိုးသက်ရောက်မှုမှာ မပြောပလောက်သော သက်ရောက်မှု ဖြစ်ပါသည်။
	စွန့်ပစ်ပစ္စည်း	B-	D	စက်ရုံမှထွက်သော အစိုင်အခဲစွန့်ပစ်ပစ္စည်းများကို သိမ်းဆည်းခြင်း၊ အမျိုးအစားခွဲခြားခြင်း၊ သန့်စင်ခြင်း၊ သတ်မှတ်ထားသော နေရာများတွင် စနစ်တကျ စွန့်ပစ်ခြင်းများကို လုပ်ဆောင်မည်ဖြစ်သည်။ ပြန်လည် အသုံးပြုနိုင်သည့် စွန့်ပစ်ပစ္စည်းများကို စီမံကိန်းအဆိုပြုသူမှ စီမံကိန်းတွင် ပြန်လည်အသုံးချခြင်း သို့မဟုတ် ပြန်လည်အသုံးချမည့်လုပ်ငန်းများသို့ ပို့ဆောင်မည်။ ထို့ကြောင့် စီမံကိန်းလုပ်ငန်းများမှ ထွက်သော အစိုင်အခဲစွန့်ပစ်ပစ္စည်း ဆိုးကျိုးသက်ရောက်မှုမှာ မပြောပလောက်သော သက်ရောက်မှု ဖြစ်ပါသည်။
	အန္တရာယ်ရှိ ပစ္စည်းများ	B-	D	လုပ်ငန်းလည်ပတ်သည့်အဆင့်တွင် ဖွဲနှဆီထုတ်လုပ်သည့် လုပ်ငန်းနှင့် ကုန်ထုတ်လုပ်သည့်လုပ်ငန်းများတွင် အသုံးပြုသော အန္တရာယ်ရှိ ဓာတုပစ္စည်းများကို သင့်တော်သော နေရာများတွင် သိုလှောင်ခြင်း၊ အသုံးပြုခြင်း၊ ကောင်းမွန်သော အဆင့်များဖြင့် စွန့်ထုတ်ခြင်းတို့ကို လုပ်ဆောင်ပါမည်။ ထို့ကြောင့် စက်ရုံတွင်း အသုံးပြုသော အန္တရာယ်ရှိပစ္စည်းများမှ ဆိုးကျိုးသက်ရောက်မှုမှာ သိသာထင်ရှားမည် မဟုတ်ပါ။
	မြေသား ညစ်ညမ်းမှု	B-	D	စက်ရုံတွင်း ရေနုတ်မြောင်းများကို လုံလောက်စွာထားရှိပြီး ထုထည်ထူသောကွန်ကရစ် ကြမ်းခင်းကို အသုံးပြုထားခြင်းတို့ကြောင့် အန္တရာယ်ရှိသော အရာများ ယိုဖိတ်ခြင်း၊ မြေဆီလွှာထဲသို့ စိမ့်ဝင်ခြင်းတို့ မဖြစ်ပေါ်နိုင်ပါ။ မတော်တဆ ယိုစိမ့်မှု၊ ဖိတ်စင်များ ဖြစ်ပေါ်ပါက အသုံးပြုရန် သီးသန့် သန့်ရှင်းရေးအသုံးအဆောင်များ (spill kits) များကို ထားရှိကာ ဘေးအန္တရာယ် လျော့ပါးစေပါမည်။ ထို့ကြောင့် မြေသားညစ်ညမ်းမှုအတွက် ဆိုးကျိုးသက်ရောက်မှုသည် သိသာထင်ရှားမည် မဟုတ်ပါ။

အမျိုးအမည်	သက်ရောက်မှု အမျိုးအစား	EMP အကဲဖြတ်ခြင်း ရလဒ်		စစ်ဆေးပြီး ရရှိသည့် ရလဒ်များ
		ကနဦး စုံစမ်း စစ်ဆေးခြင်း	EMP	
	ဆူညံသံနှင့် တုန်ခါမှု	B-	D	လုပ်ငန်းလည်ပတ်သည့်အဆင့်တွင် စီမံကိန်းလုပ်ငန်းများ လည်ပတ်ရာမှ ထွက်ရှိသော ဆူညံသံနှင့် တုန်ခါမှုများမှာ သိသာသော သက်ရောက်မှုများမရှိပါ။ ခန့်မှန်းထားသော ဆူညံသံနှင့် တုန်ခါမှု ပမာဏသည် သတ်မှတ်ထားသော အတိုင်းအတာများနှင့် အညီ လုပ်ဆောင်မည်ဖြစ်သည်။ အလုပ်ချိန်အတွင်း ကြီးမားသော စက်ပစ္စည်းများအနီး (မီတာ ၂၀အတွင်း) တွင် အလုပ်လုပ်သော အလုပ်သမားများသည် ဆူညံသံကာကွယ်ပေးသော နားကြပ်များ ဝတ်ဆင်သင့်သည်။ အလှည့်ကျတာဝန်ချထားခြင်းနှင့် အနားယူခြင်းကဲ့သို့သော စီမံခန့်ခွဲမှုစနစ်များကို ဆူညံသံ ထွက်ရှိနိုင်သည့်လုပ်ငန်းစဉ်များ အတွက် လုပ်ဆောင်မည်ဖြစ်သည်။
	အနံ့ဆိုး	B-	D	စပါး ရေစိမ်ခြင်း၊ ပေါင်းခံခြင်း၊ ဘွိုင်လာအသုံးပြုခြင်းတို့ကြောင့် စီမံကိန်း ဧရိယာမှ အနံ့ဆိုးများ အတိုင်းအတာတစ်ခုအထိ ဖြစ်ပေါ်လာမည်ဟု ခန့်မှန်းရပါသည်။ အနံ့ဆိုးအတွက် လျော့ပါးစေရေးဆောင်ရွက်ချက်များမှာ -အနံ့ဆိုးထွက်စေနိုင်သော ပစ္စည်းများ အသုံးပြုသည့် ထုတ်လုပ်မှု လုပ်ငန်းစဉ်ကို စနစ်တကျ စစ်ဆေးခြင်း -အနံ့ဆိုးများကို လုံလောက်စွာ ထိန်းချုပ်ခြင်း (အနံ့စုပ်ထုတ်ခြင်း စသည်ဖြင့်) -ပြုပြင်ထိန်းသိမ်းခြင်းနှင့် စစ်ဆေးခြင်း (နေ့စဉ် စစ်ဆေးခြင်း၊ အချိန်မှန် စစ်ဆေးခြင်း၊ အနံ့ဆိုး တိုင်းတာခြင်း) ထို့ကြောင့် စက်ရုံမှ ထွက်ရှိသော အနံ့ဆိုးကြောင့် ဆိုးကျိုး သက်ရောက်မှုသည် သိသာထင်ရှားမည် မဟုတ်ပါ။
	ဒေသခံ စီးပွားရေး (အလုပ်အကိုင် နှင့် အသက်မွေးမှု)	C+	D	စီမံကိန်းလည်ပတ်သည့် အဆင့်တွင် ဒေသခံစီးပွားရေးသည် အချို့သောအတိုင်းအတာအထိ တိုးမြင့်လာမည် ဖြစ်သည်။ ထို့ကြောင့် စီမံကိန်းကြောင့် ဒေသခံ စီးပွားရေးအပေါ် ကောင်းကျိုး သက်ရောက်မှုများ ဖြစ်လာမည် ဖြစ်ပါသည်။
	ရေအသုံးချမှု	C-	D	စီမံကိန်း၏ ရန်ကုန်မြစ်မှ ရေသုံးစွဲခြင်းသည် မြစ်ရေ၏ ပမာဏ အပေါ် ထိခိုက်မည် မရှိဟု ခန့်မှန်းရပါသည်။ ရေသုံးစွဲမှု ကြောင့် ဖြစ်ပေါ်လာနိုင်မည့် သက်ရောက်မှုများကို လျော့ပါးစေရန် အောက်ပါ လုပ်ဆောင်ချက်များကို ဆောင်ရွက်ပါမည်။ -ရေသုံးစွဲမှုကို တတ်နိုင်သလောက် လျှော့ချခြင်း၊ ရေ ပြန်လည် သုံးစွဲခြင်း၊ -ရေချွေတာနိုင်ရန် ရေသုံးစွဲသော လုပ်ငန်းများ၏ ဒီဇိုင်းနှင့် နည်းပညာကို အဆင့်မြှင့်တင်ခြင်း ထို့ကြောင့် စီမံကိန်း၏ ရေသုံးစွဲမှုကြောင့် ဖြစ်လာနိုင်သည့် ဆိုးကျိုး သက်ရောက်မှုသည် သိသာထင်ရှားမည် မဟုတ်ပါ။

အမျိုးအမည်	သက်ရောက်မှု အမျိုးအစား	EMP အကဲဖြတ်ခြင်း ရလဒ်		စစ်ဆေးပြီး ရရှိသည့် ရလဒ်များ
		ကနဦး စုံစမ်း စစ်ဆေးခြင်း	EMP	
လုပ်ငန်းခွင် ကျန်းမာရေး နှင့် ဘေး အန္တရာယ်ကင်းရှင်းရေး	လေအရည်အသွေး	B-	D	အောက်ပါလျှော့ပါးရေး ဆောင်ရွက်မှုများ လုပ်ဆောင်မည်။ -အလုပ်သမားများအတွက် လုံလောက်ပြီးသင့်တော်သော PPE ပေးခြင်း -၉၅% ထိရောက်သော မျက်နှာဖုံးများ -စက်ယာဉ် ယန္တရားများ အရှိန်သတ်မှတ်ခြင်း -စက်ရုံ ယာဉ်၊ယန္တရား၊စက်ပစ္စည်း၊ဘွိုင်လာ၊ကိရိယာ များကို ပုံမှန် စစ်ဆေးပြုပြင်ထိန်းသိမ်းခြင်း -စက်ရုံ တွင်း ကောင်းမွန်သော လေဝင်လေထွက်စနစ် တပ်စင်ထားခြင်း အထက်ပါလျှော့ပါးရေး စီမံဆောင်ရွက်မှုများ ပြုလုပ်မည် ဖြစ်သောကြောင့်လေထုအရည်အသွေးကြောင့် ထို့ကြောင့် အလုပ်သမားများအပေါ် ဆိုးကျိုးသက်ရောက်မှုများမှာ သိသာထင်ရှားမည် မဟုတ်ပါ။
	အပူချိန် ပြင်းထန်ခြင်း	B-	D	အောက်ပါလျှော့ပါးရေး ဆောင်ရွက်မှုများ လုပ်ဆောင်မည်။ -ဆေးကုသမှု လိုအပ်ပါက ချက်ချင်း ဆောင်ရွက်မည် -အနားယူရန် အရိပ်အကာရပြီး အေးသောနေရာ နှင့် လုံလောက်သော လေဝင်လေထွက်ရရှိရန် စီမံခြင်း -ချောင်ချည်ပြီး သက်တောင့်သက်သာသော အဝတ်အစားများကို ဝတ်စေရန် -ရေများများသောက်ရန်၊ လွယ်ကူစွာရရှိရန် စီမံခြင်း -အရက်သေစာ သောက်စားမှု နှင့် ကော်ဖီ လွန်စွာ သောက်ခြင်းတို့ မှ ရှောင်ရန် -အလုပ်နားချိန်ပေးရန် နှင့် အလုပ် အလှည့်ကျ လုပ်စေရန် -အားစိုက်ပြုလုပ်ရသော အလုပ်များတွင် စက်ပစ္စည်း၊ ကိရိယာ အသုံးပြုရန် -ပြင်းထန်သောအလုပ်များကို နေ့၏အေးသော အချိန်များတွင် ပြောင်းလဲပြုလုပ်ရန် -ရာသီဥတု ခန့်မှန်းချက်များကို စောင့်ကြည့်ရန် အထက်ပါ လျှော့ပါးရေးစီမံဆောင်ရွက်မှုများ ပြုလုပ်မည် ဖြစ်ပါသည်။ ထို့ကြောင့် အပူချိန်မြင့်မားမှုကြောင့် အလုပ်သမားများအပေါ် ဆိုးကျိုးသက်ရောက်မှုများမှာ သိသာထင်ရှားမည် မဟုတ်ပါ။
	ဆူညံသံနှင့် တုန်ခါမှု	B-	D	အောက်ပါလျှော့ပါးရေး ဆောင်ရွက်မှုများ လုပ်ဆောင်မည်။ -အလုပ်သမားများကို တစ်နေ့လျှင် ၈ နာရီထက် ပို၍ ဆူညံသံ ၈၅ dB(A) ထက်ကျော်သောနေရာတွင် အလုပ်မလုပ်ရပါ -လုံလောက်သော PPE (နားအကာ၊ သင့်တော်သော လက်အိတ်) ဝတ်စေရန် -တုန်ခါမှု နည်းသော စက်ပစ္စည်း၊ကိရိယာ များကို အသုံးပြုရန် -ဆူညံသံ နှင့် တုန်ခါမှု ထိတွေ့မှု ကို ကန့်သတ်ရန်၊ အလုပ်နားချိန်ပေးရန်၊ အလှည့်ကျ အလုပ်လုပ်စေရန် -စက်ပစ္စည်း၊ကိရိယာ စသည်တို့ကို ပုံမှန် စစ်ဆေးပြုပြင်ထိန်းသိမ်းရန်

အမျိုးအမည်	သက်ရောက်မှု အမျိုးအစား	EMP အကဲဖြတ်ခြင်း ရလဒ်		စစ်ဆေးပြီး ရရှိသည့် ရလဒ်များ
		ကနဦး စုံစမ်း စစ်ဆေးခြင်း	EMP	
				-အသံထွက်ရှိမှုများသော စက်ပစ္စည်း၊ကိရိယာ များကို အသံလုံသည့်နေရာအတွင်းတွင် ထားရှိရန် နှင့် တုန်ခါမှုများသော စက်ပစ္စည်း၊ကိရိယာ များကို ခုတ်မြစ်ခိုင်မာစွာအပေါ်တွင် ထားရှိရန် အထက်ပါ လျော့ပါးရေးစီမံဆောင်ရွက်မှုများ ပြုလုပ်မည်ဖြစ်ပါသည်။ ထို့ကြောင့် ဆူညံသံနှင့် တုန်ခါမှုတို့ ကြောင့် အလုပ်သမားများအပေါ် ဆိုးကျိုးသက်ရောက်မှုများမှာ သိသာထင်ရှားမည် မဟုတ်ပါ။
	လုပ်ငန်းခွင် ဒဏ်ရာရရှိမှု	B-	D	အောက်ပါလျော့ပါးရေး ဆောင်ရွက်မှုများ လုပ်ဆောင်မည်။ -လုပ်ငန်းခွင်အတွင်း အကြမ်းဖက်မှုများ၊ ရန်ဖြစ်မှုများအတွက် သံသယဖြစ်ဖွယ်နှင့် ရန်မူသော အပြုအမူ များကို စောင့်ကြည့်ရန် သင်ကြားထားရန် -အန္တရာယ်ကင်းစွာအသုံးပြုနိုင်ကြောင်း အထောက်အထားပါရှိသော အလေးအပင်မနိုင်သော စက်ပစ္စည်း၊ ကိရိယာများကိုသာ အသုံးပြုရန် -အသုံးပြုမည့်စက်ပစ္စည်း၊ကိရိယာများ အားလုံးသည် ကောင်းမွန်သောအနေအထားတွင်ရှိနေခြင်း နှင့် အန္တရာယ်ကင်း အကာအကွယ်များ နှင့် အရေးပေါ် စက်ရပ်/ပိတ်သည့် ခလုတ်ပါရန် - စက်ပစ္စည်း၊ကိရိယာ စသည်တို့ကို ပုံမှန် စစ်ဆေးပြုပြင်ထိန်းသိမ်းရန် -ယာဉ်မောင်းများ၊ ယန္တရားစက်ပစ္စည်းကိုင် အော်ပရေတာ လျှပ်စစ်အလုပ်သမား စသည်တို့သည် အသိမှတ်ပြု လိုင်စင်၊ လက်မှတ် ရှိခြင်း နှင့် သက်ဆိုင်ရာ ဥပဒေ၊စည်းမျဉ်း များကို လိုက်နာရန် -လက်ရန်းများ၊ အတားအဆီးများ၊ အန္တရာယ်ရှိ ဆိုင်းဘုတ် များ ထားရှိရန် -အမြင့်တွင်အလုပ်လုပ်ရန် သိုင်းကြိုး အသက်ကယ်ကြိုး၊ လှေကား၊ ငြမ်း၊ စသည်တို့ ရှိရန် -လွန်စွာအားစိုက်မှုမှ ကာကွယ်ရန် အနားချိန်ပေးခြင်း၊ အလှည့်ကျလုပ်ခြင်း၊ အကူပစ္စည်းအသုံးပြုခြင်း -ကျဉ်းကျပ်သော နေရာများတွင် အလုပ်လုပ်ရာတွင် အခြားနည်းလမ်းများဦးစွာရှာဖွေခြင်း အလုပ်လုပ်ခွင့် လျှောက်ခြင်း၊ အသက်ရှူကိရိယာ ပေးခြင်း၊ အဝင်အထွက် နေရာ သတ်မှတ်ခြင်း၊ တစ်ဦးမှ စောင့်ပေးခြင်း၊ နှင့် ကယ်ဆယ်ရေးအစီအစဉ်ရှိခြင်း အထက်ပါ လျော့ပါးရေးစီမံဆောင်ရွက်မှုများ ပြုလုပ်မည်ဖြစ်ပါသည်။ ထို့ကြောင့် အလုပ်ခွင်ထိခိုက်ဒဏ်ရာ ဖြစ်ပေါ်မှုကြောင့် အလုပ်သမားများအပေါ် ဆိုးကျိုးသက်ရောက်မှုများမှာ သိသာထင်ရှားမည် မဟုတ်ပါ။
	အန္တရာယ်ရှိ ပစ္စည်းများ	B-	D	အောက်ပါလျော့ပါးရေး ဆောင်ရွက်မှုများ လုပ်ဆောင်မည်။ -ကောင်းမွန်သော အန္တရာယ်ရှိပစ္စည်းများ စီမံအုပ်ချုပ်ရေး စနစ် ထားရှိခြင်း -ဓာတုပစ္စည်း အသုံးပြုမှု နှင့် ကိုင်တွယ်မှု တို့အတွက် စီမံခြင်း -သင့်တင့်၍ လုံလောက်သော အန္တရာယ်ရှိပစ္စည်း သိုလှောင်ရာနေရာများ ထားရှိခြင်း

အမျိုးအမည်	သက်ရောက်မှု အမျိုးအစား	EMP အကဲဖြတ်ခြင်း ရလဒ်		စစ်ဆေးပြီး ရရှိသည့် ရလဒ်များ
		ကနဦး စုံစမ်း စစ်ဆေးခြင်း	EMP	
				-ဒေသ မီးသတ် ဥပဒေ၊စည်းမျဥ်းများနှင့် အညီ ၄င်းစတိုးနေရာများကို ထားရှိခြင်း -၄င်းအန္တရာယ်ပစ္စည်းများပါဝင်သော ပုလင်း၊ဘူး စသည်တို့ကို သေချာစွာမှတ်သားရန်နှင့် သက်ဆိုင်ရာ MSDS များ လွယ်ကူစွာ မြင်နိုင်ခြင်း -သိုလှောင်ကန် များ (ဥပမာ- ဒီဇယ်ဆီ၊ သဘာဝဓာတ်ငွေ့) စသည်တို့အတွက် ယိုစိမ့်မှု အကာအကွယ်များ၊ ခြံစည်းရိုးကာယံခြင်း ပုံမှန်ပြုလုပ်ခြင်း အထက်ပါ လျော့ပါးရေးစီမံဆောင်ရွက်မှုများ ပြုလုပ်မည်ဖြစ်ပါသည်။ ထို့ကြောင့် အန္တရာယ်ရှိပစ္စည်းများကြောင့် အလုပ်သမားများအပေါ် ဆိုးကျိုးသက်ရောက်မှုများမှာ သိသာထင်ရှားမည် မဟုတ်ပါ။
	ကူးစက်ပျံ့နှံ့ တတ်သော ရောဂါများ	B-	D	အောက်ပါလျော့ပါးရေး ဆောင်ရွက်မှုများ လုပ်ဆောင်မည်။ -ဝန်ထမ်းများအတွက် ကျန်းမာရေး စောင့်ရှောက်မှုများ ပြုလုပ်ခြင်း -ကျန်းမာရေးအသိပညာ ပေးခြင်း -တစ်ကိုယ်ရေ သန့်ရှင်းရေး၊ အလေ့အကျင့်များ ရရှိရန် အားပေးတိုက်တွန်းခြင်း -ကူးဆက်ရောဂါ ပေါ်ပေါက်သည့် အချိန်တို့တွင် ကြိုတင်ကာကွယ်မှုများ ပြုလုပ်ခြင်း -သန့်ရှင်း၍ သန့်စင်သော အသုံးအဆောင်များ (စားသောက်ဆောင်၊ မီးဖိုချောင်၊ အိမ်သာ) ထားရှိခြင်း -နေ့စဉ် သန့်ရှင်းလုပ်ငန်းများ အပြည့်အဝ လုပ်ဆောင်ခြင်း အစားသောက်များ လုံစွာထားရှိခြင်း၊ စားကျွင်းစားကျန်များ သေချာစွာ စွန့်ပစ်ခြင်း -စားသောက်ဆောင်မှလွဲ၍ အခြားနေရာတွင် အစားအသောက်များ သုံးဆောင်ခြင်း မပြုလုပ်ရန် တားမြစ်ခြင်း -ခြင် စသော ဒုက္ခပေးတတ်သော ပိုးမွှား များ မပေါက်ဖွားရန် ရေသေ၊ ရေအိုင်များ ရှင်းလင်းဖယ်ရှားရန် အထက်ပါ လျော့ပါးရေးစီမံဆောင်ရွက်မှုများ ပြုလုပ်မည်ဖြစ်ပါသည်။ ထို့ကြောင့် ကူးဆက်ရောဂါ ကြောင့် အလုပ်သမားများအပေါ် ဆိုးကျိုးသက်ရောက်မှုများမှာ သိသာထင်ရှားမည် မဟုတ်ပါ။
	အခြား	B-	D	အောက်ပါလျော့ပါးရေး ဆောင်ရွက်မှုများ လုပ်ဆောင်မည်။ -လုပ်ငန်းခွင် ကျန်းမာရေးနှင့်လုံခြုံရေး အစည်းအဝေးများ၊ သင်တန်းများ၊ မနက်ခင်းတွေ့ဆုံမှုများ၊ စက်ရုံ လုပ်ငန်းဝင်သင်တန်း၊ အသားကျသင်တန်းများ၊ ပညာပေးသင်တန်းများ စသည်တို့ ပြုလုပ်ခြင်း -လုံလောက်သော PPE (ဦးခေါင်းအကာ၊ အပေခံစက်ရုံဝတ်စုံ၊ အစစ်များပါသော မျက်နှာဖုံး၊ လက်အိတ်၊ နားကာ၊ ဖိနပ်) စသည်တို့ အသုံးပြုရန် ပေးခြင်း -စက်ပစ္စည်း၊ယန္တရား၊ကိရိယာ များ ပုံမှန် စစ်ဆေးခြင်း -စက်ရုံ သန့်ရှင်းရေး စစ်ဆေးခြင်း

အမျိုးအမည်	သက်ရောက်မှု အမျိုးအစား	EMP အကဲဖြတ်ခြင်း ရလဒ်		စစ်ဆေးပြီး ရရှိသည့် ရလဒ်များ
		ကနဦး စုံစမ်း စစ်ဆေးခြင်း	EMP	
				-အလုပ်လုပ်ခွင့်စနစ် အကောင်အထည်ဖေါ်ခြင်း (မီးပါသောအလုပ်-ဂဟေဆော်ခြင်း၊ ဝန်ပို့ပစ္စည်းမ ခြင်း၊ အမြင့်တွင် အလုပ်လုပ်ခြင်း၊ မြေသားတူးဖေါ်ခြင်း၊ အလုံပိတ်နေရာ ကျဉ်းကျပ်သောနေရာ တွင် အလုပ်လုပ်ခြင်း) -မတော်တဆ ဖြစ်မှုများ၊ ဖြစ်ရပ်များ၊ ကူးဆက်ရောဂါဖြစ်ပွားမှုများ စသည်တို့အတွက် မှတ်တမ်းမှတ်ရာ များ ထားရှိခြင်း -စက်ရုံတွင်း အရေးပေါ်ကုသမှု ထားရှိခြင်း (အရေးပေါ်အခန်း၊ ရှေးဦးသူနာပြု၊ သူနာပြု) အထက်ပါ လျော့ပါးရေးစီမံဆောင်ရွက်မှုများ ပြုလုပ်မည်ဖြစ်ပါသည်။ ထို့ကြောင့် စက်ရုံအခြားကိစ္စရပ်များ ကြောင့် အလုပ်သမားများအပေါ် ဆိုးကျိုးသက်ရောက်မှုများမှာ သိသာထင်ရှားမည် မဟုတ်ပါ။
လူမှုအသိုင်းအဝိုင်း ကျန်းမာရေး နှင့် အန္တရာယ်ကင်းရှင်းရေး	လေထုညစ်ညမ်းမှု	B-	D	အောက်ပါလျော့ပါးရေး ဆောင်ရွက်မှုများ လုပ်ဆောင်မည်။ -ဖုန်မှုန့်ထွက်ရှိနိုင်မည့်နေရာများတွင် ရေပက်ဖျန်းခြင်း -စက်ရုံတွင် ယာဉ် အရှိန်လျော့ရန် စီမံခြင်း၊ အရှိန်လျော့ခုံများထားခြင်း -ဝန်သယ်ယာဉ်များ၏ သယ်ဆောင်သောပစ္စည်းများမှ ဖုန်အမှုန် မလွင့်ရန်၊ လမ်းများပေါ် သို့ မဖိတ်ဆင်ရန် လုံခြုံစွာ ဖုံးလွှမ်းထားခြင်း -စက်ပစ္စည်းကိရိယာ စသည်တို့ကို ပုံမှန် စစ်ဆေးပြုပြင်ထိန်းသိမ်းရန် -စက်ရုံမှ လေ၊ ထုတ်လွှင့်မှုများသည် ပတ်ဝန်းကျင်သို့ မထိခိုက်စေရန် ဆောင်ရွက်ခြင်း -လေ ထုတ်လွှင့်မှုများသည် သတ်မှတ်ထားသော စံချိန်၊ စံညွှန်းများနှင့် အညီ လိုက်နာခြင်း အထက်ပါ လျော့ပါးရေးစီမံဆောင်ရွက်မှုများ ပြုလုပ်မည်ဖြစ်ပါသည်။ ထို့ကြောင့် စက်ရုံလေထုညစ်ညမ်းမှု ကြောင့် ပတ်ဝန်းကျင် အပေါ် ဆိုးကျိုးသက်ရောက်မှုများမှာ သိသာထင်ရှားမည် မဟုတ်ပါ။
	ရေထုညစ်ညမ်းမှု	B-	D	အောက်ပါလျော့ပါးရေး ဆောင်ရွက်မှုများ လုပ်ဆောင်မည်။ -ရေမြောင်း၊ ရေကြောင်း များအတွင်းသို့ စက်ရုံမှ စွန့်ထုတ်မှုများသည် ပတ်ဝန်းသို့ ထိရောက်မှုမရှိရန် ဆောင်ရွက်ခြင်း -သန့်စင်ပြီးသော စွန့်ပစ်ရေဆိုးများ၏ အရည်အသွေးများသည် သတ်မှတ်ထားသော စံချိန်စံညွှန်းများ လိုက်နာမည်ဖြစ်ခြင်း -စွန့်ပစ်ရေဆိုးသန့်စင်သည့် စက်(စနစ်) ကို ကောင်းမွန်စွာ အသုံးပြု လည်ပတ်စေခြင်း အထက်ပါ လျော့ပါးရေးစီမံဆောင်ရွက်မှုများ ပြုလုပ်မည်ဖြစ်ပါသည်။ ထို့ကြောင့် စက်ရုံ ရေထုညစ်ညမ်းမှု ကြောင့် ပတ်ဝန်းကျင် အပေါ် ဆိုးကျိုးသက်ရောက်မှုများမှာ သိသာထင်ရှားမည် မဟုတ်ပါ။

အမျိုးအမည်	သက်ရောက်မှု အမျိုးအစား	EMP အကဲဖြတ်ခြင်း ရလဒ်		စစ်ဆေးပြီး ရရှိသည့် ရလဒ်များ
		ကနဦး စုံစမ်း စစ်ဆေးခြင်း	EMP	
	စွန့်ပစ်ပစ္စည်း နှင့် အနံ့ဆိုး သက်ရောက်မှု	B-	D	အောက်ပါလျော့ပါးရေး ဆောင်ရွက်မှုများ လုပ်ဆောင်မည်။ -စက်ရုံထွက် စွန့်ပစ်ပစ္စည်း၊ အမှိုက်၊ စသည်တို့ ပုံမှန် ကောက်ခံသိမ်းယူခြင်း၊ စက်ရုံတွင် မ ပုံစေခြင်း -စက်ရုံမှ စွန့်ပစ်ပစ္စည်း၊အမှိုက် စသည်တို့ကို သတ်မှတ်ထားသော နေရာတွင် သာ ကောင်းမွန်စွာ စွန့်ပစ်စေခြင်း -စပါး ရေစိမ်သည့် လုပ်ငန်းကို စက်ရုံအဆောက်အအုံ အပိတ်တွင် ပြုလုပ်ခြင်း -မိလ္လာကန်များ ထိန်းသိမ်းခြင်း အထက်ပါ လျော့ပါးရေးစီမံဆောင်ရွက်မှုများ ပြုလုပ်မည်ဖြစ်ပါသည်။ ထို့ကြောင့် စက်ရုံစွန့်ပစ်ပစ္စည်း သက်ရောက်မှု ကြောင့် ပတ်ဝန်းကျင် အပေါ် ဆိုးကျိုးသက်ရောက်မှုများမှာ သိသာထင်ရှားမည် မဟုတ်ပါ။
	ဆူညံသံနှင့် တုန်ခါ သက် ရောက်မှု	B-	D	အောက်ပါလျော့ပါးရေး ဆောင်ရွက်မှုများ လုပ်ဆောင်မည်။ -ညအချိန် စက်ရုံလည်ပတ်ခြင်းမှ ရှောင်ခြင်း -အသံ ထိန်းသိမ်းမှု ကိရိယာများ အသုံးပြုခြင်း (အသံကာကွယ်မှု နံရံများ၊) -ဆူညံသံ ထွက်ရှိသော စက်ပစ္စည်းကိရိယာ များကို အဆောက်အအုံအတွင်းတွင် ထားရှိခြင်း -စက်ရုံမှ ထွက်ရှိသော ဆူညံသံ အဆင့်များသည် သတ်မှတ်ထားသော စံချိန်စံညွှန်းများ ကို လိုက်နာခြင်း -တုန်ခါမှုများသော စက်ပစ္စည်းကိရိယာများကို ခိုင်ခန့်သော အုတ်မြစ်အပေါ်တွင် ထားရှိခြင်း အထက်ပါ လျော့ပါးရေးစီမံဆောင်ရွက်မှုများ ပြုလုပ်မည်ဖြစ်ပါသည်။ ထို့ကြောင့် စက်ရုံ ဆူညံသံနှင့် တုန်ခါမှု ကြောင့် ပတ်ဝန်းကျင် အပေါ် ဆိုးကျိုးသက်ရောက်မှုများမှာ သိသာထင်ရှားမည် မဟုတ်ပါ။
	ယာဉ် အန္တရာယ်	B-	D	အောက်ပါလျော့ပါးရေး ဆောင်ရွက်မှုများ လုပ်ဆောင်မည်။ -ယာဉ်ထိခိုက်မှု မတော်တဆ တိုက်ခိုက်မှု များ မှ ကာကွယ်ရန် ကောင်းမွန်၍အန္တရာယ်ကင်းရှင်းသည့် လုပ်ထုံးလုပ်နည်းများကို ကဏ္ဍအမျိုးမျိုးမှ စဉ်းစားခြင်း -ယာဉ်မောင်းသူများနှင့် စက်ပစ္စည်းကိရိယာ အော်ပရေတာ တို့တွင် အန္တရာယ်ကင်းရှင်းပြီး မောင်းနှင် အသုံးပြုသောအခါ အလေးထားရန်၊ အသားပေးရန် (အထူးသဖြင့်- စာသင်ကျောင်းများ၊ ဆေးရုံများ၊ ဘုန်းကြီးကျောင်းများ အနီးတစ်ဝိုက်တွင်) -ယာဉ် အရှိန် သတ်မှတ်မောင်းနှင်ခြင်း -ယာဉ်မောင်းသူများ၊ စက်ပစ္စည်းကိရိယာ အော်ပရေတာ တို့ကို သင်တန်းပေးခြင်း၊ မှန်ကန်သော ထောက်ခံမှုများ ဆောင်ရွက်ပေးခြင်း - စက်ပစ္စည်း၊ကိရိယာ စသည်တို့ကို ပုံမှန် စစ်ဆေးပြုပြင်ထိန်းသိမ်းရန် -ခရီးအချိန် သတ်မှတ်ခြင်း၊ ယာဉ်မောင်းသူ အလှည့်ကျမောင်းစေခြင်း -အန္တရာယ်ရှိသော လမ်းကြောင်းများကို ရှောင်စေခြင်း

အမျိုးအမည်	သက်ရောက်မှု အမျိုးအစား	EMP အကဲဖြတ်ခြင်း ရလဒ်		စစ်ဆေးပြီး ရရှိသည့် ရလဒ်များ
		ကနဦး စုံစမ်း စစ်ဆေးခြင်း	EMP	
				အထက်ပါ လျော့ပါးရေးစီမံဆောင်ရွက်မှုများ ပြုလုပ်မည်ဖြစ်ပါသည်။ ထို့ကြောင့် စက်ရုံ ယာဉ်အန္တရာယ် ကြောင့် ပတ်ဝန်းကျင် အပေါ် ဆိုးကျိုးသက်ရောက်မှုများမှာ သိသာထင်ရှားမည် မဟုတ်ပါ။
	စက်ရုံ လုံခြုံရေး	B-	D	အောက်ပါလျော့ပါးရေး ဆောင်ရွက်မှုများ လုပ်ဆောင်မည်။ -စက်ရုံလုံခြုံရေး ကိစ္စများ ဆောင်ရွက်ခြင်း (လုံခြုံရေး အစောင့်များ၊ CCTV) -စက်ရုံ အတွင်းဝင်ရောက်ခြင်းကို ကန့်သတ်ခြင်း (လုံခြုံရေး၊ ဧည့်သည်စာရင်းမှတ်ခြင်း၊ စက်ရုံ ခြံခတ်ခြင်း၊ ဆိုင်ဘုတ်များ ထားရှိခြင်း) အထက်ပါ လျော့ပါးရေးစီမံဆောင်ရွက်မှုများ ပြုလုပ်မည်ဖြစ်ပါသည်။ ထို့ကြောင့် စက်ရုံ လုံခြုံရေး ကြောင့် ပတ်ဝန်းကျင် အပေါ် ဆိုးကျိုးသက်ရောက်မှုများမှာ သိသာထင်ရှားမည် မဟုတ်ပါ။
အရေးပေါ် အန္တရာယ်	မီးဘေး အန္တရာယ်	B-	D	အောက်ပါလျော့ပါးရေး ဆောင်ရွက်မှုများ လုပ်ဆောင်မည်။ -စက်ရုံဝန်ထမ်းများကို မီးသတ်အန္တရာယ်အတွက် ပုံမှန် သင်တန်းပေးခြင်း၊ လေ့ကျင့်ခြင်း နှင့် အခြား အရေးပေါ်အန္တရာယ် တုန့်ပြန်မှုများ စသည်တို့ ဆောင်ရွက်ခြင်း -စက်ရုံ ထုတ်ကုန်နေရာများ၊ အလုပ်လုပ်နေရာများ၊ ဆန်/စပါး သိုလှောင်ရုံ/ကန် များ၊ ဓာတုပစ္စည်း၊ ဒီဇယ်၊ ဓာတ်ငွေ့ သိုလှောင်ရုံ/ကန် များ စသည်တို့ကို သက်ဆိုင်သော ဥပဒေ၊စည်းမျဉ်းများနှင့် အညီ ဆောင်ရွက်ခြင်း -လုံလောက်သော ထွက်ပေါက်များရှိခြင်း၊ လုံလောက်သောမီးသတ်ကိရိယာ (မီးသတ်ပိုက်၊ မီးသတ်ခေါင်း၊ မီးသတ် ဆေးဗူးများ၊ စသည်တို့ကို နေရာနှင့် အလိုက် ထားရှိခြင်း -အခိုးအငွေ့ အနံ့ခံ ကိရိယာများ၊ အရေးပေါ်အချက်ပေးကိရိယာများ တပ်ဆင်ထားခြင်း -အရေးပေါ် ကြိုတင်ပြင်ဆင်မှု တုန့်ပြန်မှု အစီအစဉ်များ အကောင်အထည်ဖော်ခြင်း -အရေးပေါ် စုရပ် သတ်မှတ်ခြင်း -အရေးပေါ် တုန့်ပြန်ရေး အဖွဲ့ ဖွဲ့စည်းထားခြင်း အထက်ပါ လျော့ပါးရေးစီမံဆောင်ရွက်မှုများ ပြုလုပ်မည်ဖြစ်ပါသည်။ ထို့ကြောင့် စက်ရုံ အရေးပေါ်အန္တရာယ် (မီးဘေး) ကြောင့် ပတ်ဝန်းကျင် အပေါ် ဆိုးကျိုးသက်ရောက်မှုများမှာ သိသာထင်ရှားမည် မဟုတ်ပါ။
	ရေကြီး ရေလျှံမှု	B-	D	အောက်ပါလျော့ပါးရေး ဆောင်ရွက်မှုများ လုပ်ဆောင်မည်။ -မှတ်တမ်းတင်ထားသော အမြင့်ဆုံး ရေကြီးရေလျှံမှုအဆင့် (၆.၅မီတာ) ကို ရည်ညွှန်း၍ ရေကြီးရေလျှံမှုကိုကြိုတင် ကာကွယ်ရန် လိုအပ်ချက်များအရ စက်ရုံဧရိယာကို ၇.၆၅မီတာအထိ မြေဖို့ထားခြင်း -မိုးရေကြီးမှု၊ မိုးလွန်စွာရွာသွန်းမှု၊ မုန်တိုင် စသည်တို့ အန္တရာယ်မှ ကာကွယ်ရန် စက်ရုံ ရေနုတ်မြောင်း စနစ် ထားရှိခြင်း

အမျိုးအမည်	သက်ရောက်မှု အမျိုးအစား	EMP အကဲဖြတ်ခြင်း ရလဒ်		စစ်ဆေးပြီး ရရှိသည့် ရလဒ်များ
		ကနဦး စုံစမ်းစစ်ဆေးခြင်း	EMP	
				-အရေးပေါ် ကြိုတင်ပြင်ဆင်မှု တုန့်ပြန်မှု အစီအစဉ်များ အကောင်အထည်ဖော်ခြင်း အထက်ပါ လျော့ပါးရေးစီမံဆောင်ရွက်မှုများ ပြုလုပ်မည်ဖြစ်ပါသည်။ ထို့ကြောင့် စက်ရုံ အရေးပေါ်အန္တရာယ် (ရေကြီးရေလျှံ) ကြောင့် ပတ်ဝန်းကျင် အပေါ် ဆိုးကျိုးသက်ရောက်မှုများမှာ သိသာထင်ရှားမည် မဟုတ်ပါ။
	ကုန်းလမ်းကြောင်းနှင့် ရေလမ်းကြောင်း အန္တရာယ်	B-	D	အောက်ပါလျော့ပါးရေး ဆောင်ရွက်မှုများ လုပ်ဆောင်မည်။ -ယာဉ်ထိခိုက်မှု မတော်တဆ တိုက်ခိုက်မှု များ မှ ကာကွယ်ရန် ကောင်းမွန်၍အန္တရာယ်ကင်းရှင်းသည့် လုပ်ထုံးလုပ်နည်းများကို ကဏ္ဍအမျိုးမျိုးမှ စဉ်းစားခြင်း -ယာဉ်မောင်းသူများ၊ မော်တော်ဘုတ်ရေယာဉ်/ဂမ်းပြားရေယာဉ် နှင့် စက်ပစ္စည်းကိရိယာ အော်ပရေတာ တို့တွင် အန္တရာယ်ကင်းရှင်းပြီး မောင်းနှင် အသုံးပြုသောအခါ အလေးထားရန်၊ အသားပေးရန် -ယာဉ်မောင်းသူများ၊ ရေယာဉ်မောင်းသူများ၊ စက်ပစ္စည်းကိရိယာ အော်ပရေတာ တို့ကို သင်တန်းပေးခြင်း၊ မှန်ကန်သော ထောက်ခံမှုများ ဆောင်ရွက်ပေးခြင်း -ယာဉ်၊ ရေယာဉ်၊ စက်ပစ္စည်းကိရိယာ စသည်တို့ကို ပုံမှန် စစ်ဆေးပြုပြင်ထိန်းသိမ်းရန် -ခရီးအချိန် သတ်မှတ်ခြင်း၊ ယာဉ်မောင်းသူ အလှည့်ကျမောင်းစေခြင်း -အန္တရာယ်ရှိသော လမ်းကြောများကို ရှောင်စေခြင်း အထက်ပါ လျော့ပါးရေးစီမံဆောင်ရွက်မှုများ ပြုလုပ်မည်ဖြစ်ပါသည်။ ထို့ကြောင့် စက်ရုံ အရေးပေါ်အန္တရာယ် (ကုန်းလမ်းကြောင်း နှင့် ရေလမ်းကြောင်း) ကြောင့် ပတ်ဝန်းကျင် အပေါ် ဆိုးကျိုးသက်ရောက်မှုများမှာ သိသာထင်ရှားမည် မဟုတ်ပါ။
	မြေလျှောင်	B-	D	အောက်ပါလျော့ပါးရေး ဆောင်ရွက်မှုများ လုပ်ဆောင်မည်။ -စက်ရုံ ဒီဇိုင်းနှင့် ဆောက်လုပ်ရေးကို သက်ဆိုင်သော အဆောက်အအုံ စံချိန်စံညွှန်းများ နှင့် အညီ ဆောက်လုပ်ရန် -အရေးပေါ် ကြိုတင်ပြင်ဆင်မှု တုန့်ပြန်မှု အစီအစဉ်များ အကောင်အထည်ဖော်ခြင်း အထက်ပါ လျော့ပါးရေးစီမံဆောင်ရွက်မှုများ ပြုလုပ်မည်ဖြစ်ပါသည်။ ထို့ကြောင့် စက်ရုံ အရေးပေါ်အန္တရာယ် (ငလျင်) ကြောင့် ပတ်ဝန်းကျင် အပေါ် ဆိုးကျိုးသက်ရောက်မှုများမှာ သိသာထင်ရှားမည် မဟုတ်ပါ။

မူရင်း။ EMP လေ့လာရေးအဖွဲ့

၄။ ပတ်ဝန်းကျင် စောင့်ကြပ်ကြည့်ရှု စစ်ဆေးမှု အစီအစဉ် (EMP)

စီမံကိန်းအတွက် ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှု အစီအစဉ်တွင် လုပ်ငန်းစဉ် ၂ ပိုင်းပါဝင်ပါသည်။

၁။ လုပ်ငန်းလည်ပတ်စဉ်ကာလနှင့် လိုအပ်ပါက ဆောက်လုပ်ရေးလုပ်ငန်း ဆောင်ရွက်စဉ် ကာလများတွင် ဆောင်ရွက်မည့် ပတ်ဝန်းကျင်ဆိုင်ရာ သက်ရောက်မှု လျော့နည်းစေရန် နည်းလမ်းများနှင့်

ထည့်သွင်းစဉ်းစားထားမှုများ၊ စီမံကိန်းအကြောင်းအရာ ဖော်ပြချက်များနှင့် ပတ်ဂန်းကျင် ထိခိုက်မှုဆန်းစစ်ခြင်း၊ လူမှုရေးရာ ထိခိုက်မှုဆန်းစစ်ခြင်း၊ ကျန်းမာရေးနှင့် လုံခြုံရေး ထိခိုက်မှုဆန်းစစ်ခြင်းနှင့် အရေးပေါ်ဘေးအန္တရာယ် ဆန်းစစ်ခြင်းများအပေါ် အခြေခံ၍ ဆောင်ရွက်ချက်များအား ထည့်သွင်းစဉ်းစားထားခြင်း ဖြစ်ပါသည်။

၂။ ပတ်ဂန်းကျင်စီမံခန့်ခွဲမှု အစီအစဉ် (EMP) သည် လုပ်ငန်းလည်ပတ်စဉ်ကာလနှင့် လိုအပ်ပါက ဆောက်လုပ်ရေးလုပ်ငန်း ဆောင်ရွက်စဉ် ကာလများတွင် စီမံကိန်း လုပ်ရှားဆောင်ရွက်မှု အစီအစဉ်များကြောင့် ဖြစ်ပေါ်လာနိုင်သော သဘာဂပတ်ဂန်းကျင် အရည်အသွေးများကို တိုင်းတာစစ်ဆေးရန်နှင့် အဆိုပြုထားသော ပတ်ဂန်းကျင်ဆိုင်ရာ သက်ရောက်မှု လျော့နည်းစေမည့် နည်းလမ်းများ အမှန်တကယ် အကောင်အထည်ဖော် ဆောင်ရွက်ခြင်း ရှိ/မရှိကို ဆန်းစစ်စေနိုင်ရန် ရည်ရွယ်ပါသည်။

၄.၁။ ပတ်ဝန်းကျင်ဆိုင်ရာသက်ရောက်မှု လျော့ပါးစေရေးနည်းလမ်းများနှင့် ထည့်သွင်းစဉ်းစားမှုများ

ပတ်ဂန်းကျင်ညစ်ညမ်းခြင်း၊ သဘာဂပတ်ဂန်းကျင်၊ လူမှုပတ်ဂန်းကျင်၊ ကျန်းမာရေးနှင့် ဘေးအန္တရာယ် ကင်းရှင်းရေးနှင့် အရေးပေါ်ဘေးအန္တရာယ်များ အစရှိသဖြင့် မတူညီသော ရှုထောင့်အမျိုးမျိုးမှ သက်ရောက်မှုများကို လျော့နည်းစေရန်နည်းလမ်းများ ထည့်သွင်းစဉ်းစားမှုများအား ဇယား-၁၂ တွင် အကျဉ်းချုပ် ဖော်ပြထားပါသည်။ ပတ်ဂန်းကျင်ဆိုင်ရာ သက်ရောက်မှုလျော့နည်းစေရန် နည်းလမ်းများနှင့် ထည့်သွင်းစဉ်းစားမှု အများစုကို စီမံကိန်းအဆိုပြုသူမှ အကောင်အထည်ဖော် ဆောင်ရွက်သွားမည် ဖြစ်ပါသည်။

ဇယား-၁၂။ လုပ်ငန်းလည်ပတ်စဉ် ကာလတွင် ပတ်ဂန်းကျင်ဆိုင်ရာ သက်ရောက်မှုလျော့နည်းစေရန် နည်းလမ်းများနှင့် ထည့်သွင်းစဉ်းစားမှုများ

အမျိုးအစား	အချက်အလက်	ပတ်ဂန်းကျင်ဆိုင်ရာ သက်ရောက်မှုလျော့နည်းစေရန် နည်းလမ်းများနှင့် ထည့်သွင်းစဉ်းစားမှုများ	အကောင်အထည်ဖော်မည့် အဖွဲ့အစည်း
ညစ်ညမ်းခြင်း	လေထုညစ်ညမ်းခြင်း	• အထူးသဖြင့် အဆောက်အအုံ ပြင်ပတွင် ထားရှိသော ယာဉ်များနှင့် ကုန်ကြမ်းပစ္စည်း အစုအပုံများကို အဖုံးအကာအောက်တွင် ထားရှိခြင်း။ • ဖုန်မှုန့်ထွက်ရှိခြင်းမှ ကာကွယ်ရန် ရေဖျန်းခြင်း၊ လှည်းကျင်းခြင်းနှင့် အခြား ကုန်သိုလှောင်ထားရှိမှု စီမံခန့်ခွဲခြင်း နည်းလမ်းများကို အသုံးပြုခြင်း • အလုံပိတ်အခန်းတွင် ကုန်ထုတ်လုပ်မှု ပြုလုပ်ခြင်း • စွန့်ထုတ် ဓာတ်ငွေ့များမှ ဖုန်မှုန့်ကို ဖယ်ရှားရန် လေဝင်လေထွက် ထိန်းချုပ်မှု စနစ်များနှင့် အဝတ် ဇကာများ ထားရှိခြင်း • စွန့်ထုတ်ဓာတ်ငွေ့များကို လုံလောက်သော အမြင့်ရှိသော ခေါင်းတိုင်မှ စွန့်ထုတ်ခြင်း • ပတ်ဝန်းကျင် လေအရည်အသွေး (SO_2, NO_2, CO, PM_{10}, $PM_{2.5}$) ကို ပုံမှန် စောင့်ကြပ်စစ်ဆေးခြင်း	အထွေထွေ မန်နေဂျာ၊ ပတ်ဝန်းကျင် ဆိုင်ရာ မန်နေဂျာ
	ရေထု ညစ်ညမ်းခြင်း	• ဆီစစ် ကိရိယာများ (oil separators/traps) ကို ရေမြောင်း အဝင်နေရာများတွင် လိုအပ်သလို ထားရှိခြင်း • မိုးရေစီးဆင်းမှုကို ပုံမှန် စောင့်ကြပ်စစ်ဆေးခြင်း • သန့်စင်မှု လုံလောက်စွာ ပြုလုပ်နိုင်သော မိလ္လာကန်များကို ထားရှိခြင်း • မိလ္လာကန်များကို ပုံမှန် စောင့်ကြပ်စစ်ဆေးခြင်းနှင့် မိလ္လာကန်မှ အနည်အနစ်များကို YCDC မှ ပုံမှန်လာရောက် သိမ်းဆည်းခြင်း • ပင်မရေမြောင်းနှင့် ရန်ကုန်မြစ်သို့ စီးဆင်းသည့် ထွက်ပေါက်များရှိ ရေမြောင်းရေများကို ပုံမှန်စောင့်ကြပ်စစ်ဆေးခြင်း • မြေပေါ်ရေ၏ ရေအရည်အသွေးကို ပုံမှန် စစ်ဆေးမှု ပြုလုပ်ခြင်း • စက်မှုလုပ်ငန်းသုံး ရေဆိုးများ (ရှိပါက) စနစ်တကျ သိမ်းဆည်း၊ သန့်စင်ကာ စွန့်ပစ်ခြင်း	အထွေထွေ မန်နေဂျာ၊ ထုတ်လုပ်ရေး မန်နေဂျာ၊ ပတ်ဝန်းကျင် ဆိုင်ရာ မန်နေဂျာ

အမျိုးအစား	အချက်အလက်	ပတ်ဝန်းကျင်ဆိုင်ရာ သက်ရောက်မှုလျော့နည်းစေရန် နည်းလမ်းများနှင့် ထည့်သွင်းစဉ်းစားမှုများ	အကောင်အထည်ဖော်မည့် အဖွဲ့အစည်း
	အစိုင်အခဲ စွန့်ပစ်ပစ္စည်းများ	• ပြည့်စုံသော အစိုင်အခဲ စွန့်ပစ်ပစ္စည်း စီမံခန့်ခွဲမှု စနစ် (စွန့်ပစ်ပစ္စည်း သိမ်းဆည်းခြင်း မှတ်တမ်းများ၊ ပြန်လည်အသုံးပြုမှု၊ စွန့်ပစ်ပစ္စည်းများကို စနစ်တကျ သိမ်းဆည်းထားမှု အခြေအနေနှင့် စွန့်ပစ်မှု စနစ်) သတ်မှတ်ထားရှိခြင်း • စွန့်ပစ်ပစ္စည်း စီမံခန့်ခွဲမည့် တာဝန်ရှိကုမ္ပဏီမှ လာရောက်သိမ်းဆည်းမှု မပြုလုပ်မီ လုပ်ငန်းခွင်တွင် စွန့်ပစ်ပစ္စည်းကို အမျိုးအစားခွဲကာ ခွဲခြား စွန့်ပစ်ခြင်း • ကုန်ကြမ်းပစ္စည်းနှင့် စွန့်ပစ်ပစ္စည်း သိုလှောင်ထားရာတွင် ယိုဖိတ်မှု မရှိစေရန် စနစ်တကျ ထိန်းသိမ်းကာ ပုံမှန် စစ်ဆေးမှု ပြုလုပ်ခြင်း • ကုန်ကြမ်းပစ္စည်းများ ဖိတ်ကျမှု ဖြစ်ပါက ချက်ချင်း သိမ်းဆည်း၍ သန့်ရှင်း ရေး ပြုလုပ်ခြင်း၊ ထိုကုန်ကြမ်းပစ္စည်းများကို ပြန်လည်အသုံးပြုခြင်း (သို့) စနစ်တကျ စွန့်ပစ်ခြင်း • လုပ်ငန်းခွင်တွင် စွန့်ပစ်ပစ္စည်း ပြန်လည် သုံးစွဲမှုကို တတ်နိုင်သလောက် ဆောင်ရွက်ခြင်း • ပြန်လည် သုံးစွဲမှု ပြုလုပ်မရသော၊ အန္တရာယ် ဖြစ်စေနိုင်သော စွန့်ပစ်ပစ္စည်းများကို စွန့်ပစ်ပစ္စည်း စီမံခန့်ခွဲမည့် တာဝန်ရှိကုမ္ပဏီများမှ စနစ်တကျ သယ်ယူသိမ်းဆည်းပြီး သန့်ပစ်ကာ စွန့်ပစ်ခြင်း • စွန့်ပစ်ပစ္စည်း ထွက်ရှိမှု၊ ပြန်လည် သုံးစွဲမှုနှင့် စွန့်ပစ်မှုအခြေအနေများကို စောင့်ကြပ်စစ်ဆေးခြင်း	အထွေထွေ မန်နေဂျာ၊ ထုတ်လုပ်ရေး မန်နေဂျာ၊ ပတ်ဝန်းကျင် ဆိုင်ရာ မန်နေဂျာ
	ဘေးအန္တရာယ် ဖြစ်စေနိုင်သော ဓာတုပစ္စည်းများ	• ဖွဲ့နဆီထုတ်လုပ်သည့်လုပ်ငန်းနှင့် ကုန်ထုတ်လုပ်သည့်လုပ်ငန်းတွင်အသုံးပြုသော (ဥပမာ ဒီဇယ်ဆီ၊ hexane အရည်) စသော ဓာတုပစ္စည်းများကို သင့်တော်သောနေရာတွင် သိုလှောင်ခြင်း၊ အသုံးပြုခြင်းနှင့် စွန့်ပစ်ပစ္စည်းများကို စနစ်တကျ စွန့်ပစ်ခြင်း။ • သင့်လျော်သော ဘေးအန္တရာယ်ဖြစ်စေနိုင်သော ဓာတုဗေဒ စီမံခန့်ခွဲမှု အစီအစဉ်နှင့် လုပ်ထုံးလုပ်နည်းများအား အကောင်အထည်ဖော်မည်။	
	မြေထုညစ်ညမ်းမှု	• ထုထည်ထုသော ကွန်ကရစ်ကြမ်းခင်းများနှင့် စက်ရုံအတွင်းရေနုတ်မြောင်းများထားရှိခြင်း။ • သင့်လျော်သော ဘေးအန္တရာယ်ဖြစ်စေနိုင်သော ဓာတုဗေဒ စီမံခန့်ခွဲမှု အစီအစဉ်ထားရှိခြင်း။ • Spill kits များလုံလောက်စွာထားရှိခြင်း၊	
	ဆူညံသံနှင့် တုန်ခါမှု	• ဆူညံသော စက်ပစ္စည်းများအနီး အလုပ်လုပ်ရသော ဝန်ထမ်းများကို ဆူညံသံ ကာကွယ်သည့် ကိရိယာများ တပ်ဆင်စေခြင်း • အသံလုံနံရံများ၊ ဆူညံသံထိန်း ကိရိယာများကို စက်ရုံအနီးအနားတွင် လိုအပ်သလို တပ်ဆင်ထားခြင်း • ဆူညံသံ ဖြစ်ပေါ်မှုကို လျော့နည်းစေရန် လုပ်ငန်းခွင်သုံး စက်ပစ္စည်း ကိရိယာများကို ကောင်းမွန်စွာ ထိန်းသိမ်းထားရှိခြင်း	ထုတ်လုပ်ရေး မန်နေဂျာ၊ ဘေးကင်းရှင်းရေး မန်နေဂျာ
	အနံ့ဆိုး	• အနံ့ဆိုးထွက်စေနိုင်သော ပစ္စည်းများ အသုံးပြုသည့် ထုတ်လုပ်မှု လုပ်ငန်းစဉ်ကို စနစ်တကျ စစ်ဆေးခြင်း • အနံ့ဆိုးများကို လုံလောက်စွာ ထိန်းချုပ်ခြင်း (အနံ့စုပ်ထုတ်ခြင်း စသည်ဖြင့်) • ပြုပြင်ထိန်းသိမ်းခြင်းနှင့် စစ်ဆေးခြင်း (နေ့စဉ် စစ်ဆေးခြင်း၊ အချိန်မှန် စစ်ဆေးခြင်း၊ အနံ့ဆိုး တိုင်းတာခြင်း)	
လူမှုပတ်ဝန်းကျင်	ဒေသခံ စီးပွားရေး	• ဘေးအန္တရာယ်လျော့ပါးစေရေး နည်းလမ်းများနှင့် ထည့်သွင်း စဉ်းစားမှုများ ပြုလုပ်မည် မဟုတ်ပါ။	
	ရေသုံးစွဲမှု	• ရေကို တတ်နိုင်သလောက် သုံးစွဲမှု ဆင်ခြင်ခြင်းနှင့် ပြန်လည်အသုံးပြုခြင်း • ရေအသုံးပြုမှုပမာဏကို သက်သာစေရန် စက်မှုလုပ်ငန်းနှင့် အခြား လုပ်ငန်းများအတွက် ကောင်းမွန်သော ဒီဇိုင်းနှင့် နည်းပညာများကို အသုံး ပြုခြင်း	ထုတ်လုပ်ရေး မန်နေဂျာ

အမျိုးအစား	အချက်အလက်	ပတ်ဝန်းကျင်ဆိုင်ရာ သက်ရောက်မှုလျော့နည်းစေရန် နည်းလမ်းများနှင့် ထည့်သွင်းစဉ်းစားမှုများ	အကောင်အထည်ဖော်မည့် အဖွဲ့အစည်း
ကျန်းမာရေး နှင့် ဘေးအန္တရာယ် ကင်းရှင်းရေး	လုပ်ငန်းခွင် ကျန်းမာရေးနှင့် ဘေးအန္တရာယ် ကင်းရှင်းရေး	• အဆောက်အဦတည်ဆောက်ပုံ၏ ဘေးကင်းလုံခြုံမှု၊ အရေးပေါ်ထွက်ပေါက်သို့ သွားလမ်းအားရှင်းလင်းထားခြင်း၊ အိမ်သာသန့်ရှင်းမှု နှင့် မီးပေးမှုစနစ်များကို စစ်ဆေးခြင်းများပြု လုပ်၍ စနစ်များအားလုံးပုံမှန်လည်ပတ်စေ ခြင်း • ရှေးဦးသူနာပြုဆေးခန်းများကို ကောင်းမွန်စွာထားရှိပြီး အလွယ်တကူသွားရောက်ကုသနိုင်ရန် ၂၄ နာရီလုံး ဖွင့်လှစ်ထား ခြင်း • အလုပ်သမားများအားလုံးအတွက် လုပ်ငန်းလုပ်ဆောင်ချက်များ ၊ အခြေခံ OHS နှင့် ဘေးအန္တရာယ်ရှိသောပစ္စည်းများအား စီမံခန့်ခွဲခြင်းများအပေါ် သင်တန်းများ ပို့ချပေးခြင်း • ဘေးကင်းလုံခြုံရေး ဆိုင်းဘုတ်များ၊ ယာဉ်သွားလာခြင်းနှင့်ဆိုင်သည့် လမ်းကြောင်း အမှတ်အသားများ၊ ယာဉ်ရပ်နားနိုင်သည့်နေ ရာ၊ သတ်မှတ်ထားသော မြန်နှုန်း၊ ယာဉ်အခြေအနေများကိုစစ်ဆေးခြင်း၊ လုပ်ငန်းဆိုင်ရာစည်းမျဉ်းများနှင့် တားမြစ်ချက်များ ပြင်ဆင်ခြင်း • ညအချိန် သို့ ဆူညံမှုမြင့်သောပတ်ဝန်းကျင် (>85 dB)တွင် လုပ်ကိုင်ရသော အလုပ်သမားများအတွက်အကြားအာရုံ ကာကွယ်သည့်ကိရိယာများကို တပ်ဆင်သင့်ခြင်း • ထုတ်လုပ်သည့်နေရာတွင် အလုပ်သမားအားလုံးအတွက် PPE (ဥပမာ- ခေါင်းစွပ်၊ ဂါဝန်၊ လက်အိတ်၊ နှာခေါင်းစီး) များကို တပ်ဆင်ခြင်း • ကုန်ကြမ်းပစ္စည်းများနှင့် ကုန်ပစ္စည်းများကို သယ်ဆောင်ရာတွင် လက်ဖြင့်ကိုင်တွယ်ခြင်း အလွန်အကျွံအားစိုက်ထုတ်ခြင်းများကို လျော့နည်း သက်သာစေရန် စက်ပစ္စည်းများထောက်ပံ့ပေး ခြင်း • အပူချိန်/အအေးလွန်ကဲသောနေရာ(ဥပမာ- အပူပေးခြင်း နှင့် ရေနွေးငွေ့သုံး လုပ်ငန်းစဉ်များ) တွင်အနီးကပ်အလုပ်လုပ်ကိုင်ရသော အလုပ်သမားများ အတွက် လုံလောက်သော ရေနှင့် အလုည့်ကျအနားယူစေခြင်း • အလုပ်သမားများအတွက် ကျန်းမာရေးပုံမှန်စစ်ဆေး ပေးခြင်းနှင့် တစ်ကိုယ်ရေ သန့်ရှင်းရေးနှင့် မိလ္လာစနစ်များအပေါ် လမ်းညွှန်ချက်များ ထောက်ပံ့ပေးခြင်း • (HIV၊ တုပ်ကွေး) စသော ကူးစက်ရောဂါများ ကြိုတင်ကာကွယ်ရန် သင်တန်းများ လမ်းညွှန်ချက်များကို ပုံမှန်ပို့ချပေးခြင်း	အထွေထွေ မန်နေဂျာ၊ ထုတ်လုပ်ရေး မန်နေဂျာ၊ ပတ်ဝန်းကျင် ဆိုင်ရာ မန်နေဂျာ၊ ဘေး ကင်းရှင်းရေး မန်နေဂျာ
	လူထုအသိုင်း အဝိုင်း၏ ကျန်းမာရေးနှင့် ဘေးအန္တရာယ် ကင်းရှင်းရေး	• အစားအစာများဘေးကင်းစေခြင်းနှင့် စီမံခန့်ခွဲမှုအစီအစဉ်များ ကို တိုးတက်စေခြင်း နှင့်အကောင်အထည်ဖော်ခြင်း • စက်ရုံသည်ပစ္စည်းများ၏ သန့်ရှင်းမှု၊ ဝန်ထမ်းများ၏ တစ်ကိုယ် ရေသန့်ရှင်း မှုစသည့်အမှုအကျင့်များဖြင့် ဒီဇိုင်းရေးဆွဲထားပြီး လုပ်ငန်းလည်ပတ်ခြင်းတို့ကြောင့် အစားအစာများ၏ ဘေးကင်းလုံခြုံမှုကို အာမခံချက်ပေးနိုင်ခြင်း • အလုပ်သမားများအတွက် အစားအစာဘေးကင်းလုံခြုံရေးဆိုင်ရာသင်တန်း များနှင့် လက်ဆေးခြင်းနည်းစဉ် များ၊ အလုပ်လုပ် သောဝတ်စုံ (ဂါဝန်၊ ဖိနပ်၊ လက်အိတ်၊ ခေါင်းစွပ်၊ နှာခေါင်းစည်း)များကို ထောက်ပံ့ပေးခြင်း • ယာဉ်မောင်းများ (fork lift, truck)အတွက် သင်တန်းများထောက်ပံ့ပေးခြင်း၊ လက်မှတ်များထုတ်ပေးခြင်း နှင့် ယာဉ်များအား ပုံမှန်ထိန်းသိမ်းပြုပြင်ခြင်း • ပိုးလောက်လန်းနှင့်ခြင်များကြောင့်ဖြစ်သော ကူးစက်နိုင်သည့် ရောဂါပိုးများကိုကာကွယ်ရန် မိလ္လာစနစ်များကို ပုံမှန်စစ်ဆေးခြင်း • (HIV၊ တုပ်ကွေး) စသော ရောဂါများကိုကာကွယ်ရန် လမ်းညွှန်ချက်များနှင့် သင်တန်း များကို ပုံမှန်ပို့ချပေးခြင်း	အထွေထွေ မန်နေဂျာ၊ ထုတ်လုပ်ရေး မန်နေဂျာ၊ ပတ်ဝန်းကျင် ဆိုင်ရာ မန်နေဂျာ၊ ဘေး ကင်းရှင်းရေး မန်နေဂျာ
အရေးပေါ် အန္တရာယ်	အရေးပေါ် ဘေးအန္တရာယ်	• ရေဘေး၊ မီးဘေး၊ ပေါက်ကွဲမှု၊ သိုလှောင်ရုံများ နှင့် ပိုက်လိုင်းများမှ ဆီယို ဖိတ်မှု နှင့် ပတ်သက်၍ စီမံကိန်း အဆောက်အအုံများကို စနစ်တကျ ဒီဇိုင်း ဆွဲ ဆောက်လုပ်ခြင်း • လုပ်ငန်းခွင် ကျန်းမာရေးနှင့် ဘေးအန္တရာယ် ကင်းရှင်းရေး အတွက် ဘေးလျော့ပါးစေရေး လုပ်ဆောင်ချက်များကို IFC စည်းမျဉ်းစည်းကမ်းများ	အထွေထွေ မန်နေဂျာ၊ ထုတ်လုပ်ရေး မန်နေဂျာ၊ ပတ်ဝန်းကျင်

အမျိုးအစား	အချက်အလက်	ပတ်ဝန်းကျင်ဆိုင်ရာ သက်ရောက်မှုလျော့နည်းစေရန် နည်းလမ်းများနှင့် ထည့်သွင်းစဉ်းစားမှုများ	အကောင်အထည်ဖော်မည့် အဖွဲ့အစည်း
		နှင့်အညီ ဆောင်ရွက်ပြီး စီမံကိန်းဧရိယာတွင်းနှင့် ပြင်ပတွင် ယာဉ်မတော်တဆဖြစ်မှုကို လျော့နည်းစေရန် သေချာ ဆောင်ရွက်ခြင်း • ဘေးအန္တရာယ်ကင်းရှင်းရေးဆိုင်ရာ နည်းလမ်းများ (မီးဘေး ကင်းရှင်းရေး၊ ယာဉ်မတော်တဆဖြစ်မှု ကင်းရှင်းရေး) ကို လုပ်ဆောင်ခြင်းကို စစ်ဆေးခြင်းနှင့် ဆီယိုစိမ့်မှုကို ပုံမှန် စစ်ဆေးခြင်း • ရေဘေး တုံ့ပြန်မှု အစီအစဉ်၊ မီးဘေး တုံ့ပြန်မှု အစီအစဉ်၊ မတော်တဆ ဖြစ်ပါက အသက် ကယ်တင်ခြင်း အစီအစဉ်၊ ဆီဖိတ်ခြင်း တုံ့ပြန်မှု အစီ အစဉ် စသော ဘေးအန္တရာယ် တုံ့ပြန်မှု အစီအစဉ်များကို ပြင်ဆင်ထား ခြင်း • ဘေးအန္တရာယ် တုံ့ပြန်မှု အစီအစဉ်အားလျော်စွာ သက်ဆိုင်ရာ တာဝန်ရှိသူ များကို လေ့ကျင့် သင်ကြားပေးခြင်း • မီးသတ်ခြင်း၊ ဆီယိုဖိတ်ပါက တုံ့ပြန်ခြင်း စသော ဘေးအန္တရာယ် တုံ့ပြန်မှု အစီအစဉ်များကို ပုံမှန် လက်တွေ့ပြုလုပ်လေ့ကျင့်ခြင်း	ဆိုင်ရာ မန်နေဂျာ၊ ဘေး ကင်းရှင်းရေး မန်နေဂျာ

မှုရင်း။ EMP လေ့လာရေးအဖွဲ့

၄.၂။ ပတ်ဝန်းကျင် စောင့်ကြပ်ကြည့်ရှု စစ်ဆေးမှု အစီအစဉ်

လုပ်ငန်းလည်ပတ်စဉ်ကာလအတွင်း စောင့်ကြပ်ကြည့်ရှု စစ်ဆေးရမည့် အချက်အလက်များ နှင့် တည်နေရာ များ ပါဝင်သော ပတ်ဝန်းကျင် စောင့်ကြပ်ကြည့်ရှု စစ်ဆေးမှု အစီအစဉ်ကို ဇယား-၁၃ တွင် ဖော်ပြထား ပါသည်။ စီမံကိန်း အဆိုပြုသူသည် စောင့်ကြည့်ကြည့်ရှုစစ်ဆေးခြင်း နှင့်တွေ့ရှိချက် ရလဒ်များကို ပြင်ဆင်ရာတွင် အဓိကတာဝန်ရှိသူဖြစ်ပြီး အဆိုပါ လုပ်ငန်းလည်ပတ်စဉ် ကာလအတွင်း စောင့်ကြပ်ကြည့်ရှု စစ်ဆေးမှု အစီရင်ခံစာကို တင်ပြသွားမည် ဖြစ်ပါသည်။

ဇယား-၁၃။ လုပ်ငန်းလည်ပတ်စဉ် ကာလအတွင်း ပတ်ဝန်းကျင် စောင့်ကြပ်ကြည့်ရှု စစ်ဆေးမှု အစီအစဉ်

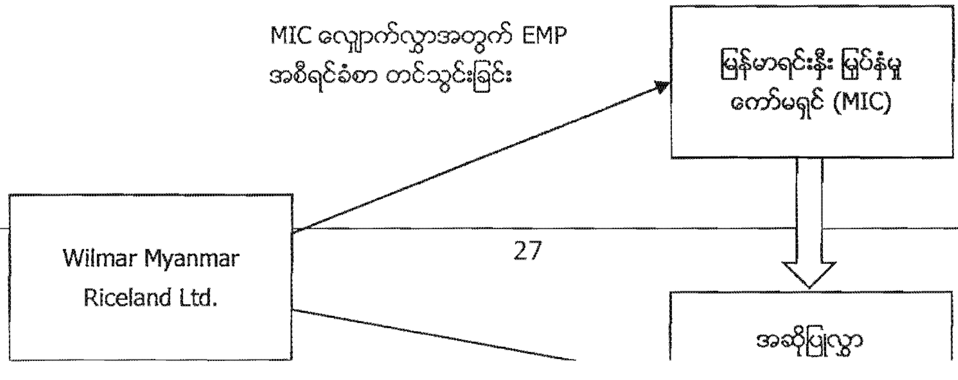
အမျိုးအစား	စောင့်ကြပ်ကြည့်ရှု ရမည့် အကြောင်းအရာ	စောင့်ကြပ်ကြည့်ရှုမည့် အရာ	နေရာ	အကြိမ်	တာဝန်ရှိ အဖွဲ့အစည်း
ယေဘုယျ	သက်ရောက်မှု လျော့နည်းစေရန် နည်းလမ်းများကို စောင့်ကြပ်ကြည့်ရှု စစ်ဆေးခြင်း	-	စီမံကိန်း နယ်မြေ	တစ်လ တစ်ကြိမ်	စီမံကိန်း အဆိုပြုသူ
လေထု ညစ်ညမ်းမှု	စီမံကိန်းနယ်မြေအနီးရှိ ပတ်ဝန်းကျင် လေအရည်အသွေး	PM10, PM2.5, NO2, SO2, CO	စီမံကိန်း နယ်မြေ	၆ လ တစ်ကြိမ် (လောင်ကျွမ်းမှု ပါဝင်သော စက်ပစ္စည်း လည်ပတ်ပြီး ၃ နှစ် ကြာပြီးနောက်)	စီမံကိန်း အဆိုပြုသူ
ရေထု ညစ်ညမ်းမှု	မိုးရေ အရည်အသွေး	pH, BOD, COD, TSS, Ammonium, Oil & grease	ရေမြောင်း စွန့်ထုတ် သည့်နေရာ (၂ နေရာ)	၆ လ တစ်ကြိမ် (မိုးရာသီ)	စီမံကိန်း အဆိုပြုသူ
	မိလ္လာကန်များမှ စွန့်ထုတ်ရေများ၏ ရေအရည်အသွေး (လိုအပ်ပါက)	BOD, TSS, Total Coliform	မိလ္လာကန် များမှ စွန့်ထုတ် သည့် နေရာ	၆ လ တစ်ကြိမ်	စီမံကိန်း အဆိုပြုသူ
	လုပ်ငန်းသုံး ရေဆိုးသန့်စင်စနစ်မှ	pH, Temperature, BOD, COD, TSS, Oil & grease, Total coliform,	စွန့်ထုတ်သည့် နေရာ	၆ လ တစ်ကြိမ်	စီမံကိန်း အဆိုပြုသူ

အမျိုးအစား	စောင့်ကြပ်ကြည့်ရှု ရမည့် အကြောင်းအရာ	စောင့်ကြပ်ကြည့်ရှုမည့် အရာ	နေရာ	အကြိမ်	တာဝန်ရှိ အဖွဲ့အစည်း
	ထွက်ရှိသော ရေ၏ အရည်အသွေး	Total nitrogen, Total phosphorus			
	မြေပေါ်ရေ ရရှိမှု၏ ရေအရည်အသွေး (ရန်ကုန်မြစ်၊ ပင်မ ရေမြောင်း)	pH, Temperature, BOD, COD, TSS, Oil & grease, Total coliform, Total nitrogen, Total phosphorus	၂ နေရာ	၆ လ တစ်ကြိမ်	စီမံကိန်း အဆိုပြုသူ
စွန့်ပစ်ပစ္စည်း	စွန့်ပစ်ပစ္စည်း စီမံခန့်ခွဲမှု အခြေအနေ	စွန့်ပစ်ပစ္စည်း ထွက်ရှိမှု၊ ပြန်လည်သုံးစွဲမှု၊ စွန့်ပစ်မှု ပမာဏ	စီမံကိန်း နယ်မြေ	တစ်လ တစ်ကြိမ်	စီမံကိန်း အဆိုပြုသူ
ဆူညံသံနှင့် တုန်ခါမှု	ဆူညံသံနှင့် တုန်ခါမှု အဆင့်	Leq, Lv	စီမံကိန်း နယ်မြေ (၂ နေရာ)	၆ လ တစ်ကြိမ် (လုပ်ငန်း လည်ပတ်ပြီး ၃ နှစ် ကြာပြီးနောက်)	စီမံကိန်း အဆိုပြုသူ
ရေအသုံးပြုမှု	ရေသုံးစွဲမှု အခြေအနေ	ရေသုံးစွဲမှု ပမာဏ	စီမံကိန်း နယ်မြေ	တစ်လ တစ်ကြိမ်	စီမံကိန်း အဆိုပြုသူ
လုပ်ငန်းခွင် ကျန်းမာရေးနှင့် ဘေးအန္တရာယ် ကင်းရှင်းရေး	ဘေးကင်းရှင်းရေး လုပ်ဆောင်မှု အခြေအနေ	ဘေးကင်းရှင်းရေး လုပ်ဆောင်မှု မှတ်တမ်း၊ လုပ်ငန်းခွင် မတော်တဆ ဖြစ်မှု မှတ်တမ်း၊ အသေအပျောက် ဖြစ်မှု မှတ်တမ်း	စီမံကိန်း နယ်မြေ	၃ လ တစ်ကြိမ်	စီမံကိန်း အဆိုပြုသူ
လူထုအသိုင်း အဝိုင်း၏ ကျန်းမာရေး နှင့် ဘေး အန္တရာယ် ကင်းရှင်းရေး	လူထု အသိုင်းအဝိုင်း ဘေးကင်းရှင်းရေး အခြေအနေ	အစားအသောက် ဘေးကင်းရှင်းရေး လုပ်ဆောင်မှု မှတ်တမ်း၊ ရောဂါ ကူးစက်မှု ကာကွယ်ခြင်း မှတ်တမ်း	စီမံကိန်း နယ်မြေ	၃ လ တစ်ကြိမ်	စီမံကိန်း အဆိုပြုသူ
အရေးပေါ် အန္တရာယ်များ	ဘေးအန္တရာယ် ဖြစ်နိုင်မှု အခြေအနေ	ရေဘေး ဖြစ်ပွားမှု မှတ်တမ်း၊ မီးဘေးနှင့် ပေါက်ကွဲမှု ဖြစ်ပွားမှု မှတ်တမ်း၊ လမ်းနှင့် မြစ်ကြောင်း အသွား အလာ မတော်တဆဖြစ်မှု မှတ်တမ်း၊ ဆီယိုဖိတ်မှု မှတ်တမ်း၊ ဘေး ဖြစ်ပွား ပါက ဖြေရှင်းပုံ မှတ်တမ်း	စီမံကိန်း နယ်မြေ	၃ လ တစ်ကြိမ်	စီမံကိန်း အဆိုပြုသူ

မူရင်း။ EMP လေ့လာရေးအဖွဲ့

၇။ အဖွဲ့အစည်းဆိုင်ရာ စီစဉ်ဆောင်ရွက်မှု

လုပ်ငန်းလည်ပတ်စဉ် ကာလအတွက် အဖွဲ့အစည်းဆိုင်ရာ စီစဉ်ဆောင်ရွက်မှုကို အောက်ပါ ပုံ-၇ တွင် ဖော်ပြထားပါသည်။



မှုရင်း။ EMP လေ့လာရေးအဖွဲ့

ပုံ-၇။ လုပ်ငန်းလည်ပတ်စဉ်ကာလအတွက် အဖွဲ့အစည်းဆိုင်ရာ စီစဉ်ဆောင်ရွက်မှု

၆။ လူမှုရေး တာဝန်ယူခြင်း အစီအစဉ် (CSR)

စီမံကိန်းအဆိုပြုသူသည် ဤစီမံကိန်း၏ အသားတင် အမြတ် ၁ ရာခိုင်နှုန်းကို လူမှုရေးအသင်းအဖွဲ့များ သို့ ထောက်ပံ့ပေးမည့် အစီအစဉ်များ ရှိပါသည်။ စီမံကိန်း အဆိုပြု အဖွဲ့အစည်း၏ ပရဟိတအစီအစဉ်ကို လုပ်ဆောင်နေသော အသင်းအဖွဲ့သည် တရုတ် စင်ကာပူ မလေးရှား အင်ဒိုနီးရှားနှင့် မြန်မာနိုင်ငံ ပတ်ဝန်းကျင်ရှိ လူမှုအသိုင်းအဝိုင်းများနှင့် စိတ်ချယုံကြည်ရသော ဆက်ဆံရေးကို တည်ဆောက်ထားပါသည်။

စီမံကိန်း အဆိုပြုသူသည် မြန်မာနိုင်ငံတွင် ပညာရေးနှင့် ကျန်းမာရေး စောင့်ရှောက်မှုကဏ္ဍများတွင် အဓိက ကူညီပါမည်။ မိတ္ထီလာမြို့တွင် ၂၀၁၃ ခုနှစ် နိုဝင်ဘာလတွင် အခမဲ့ မျက်စိရောဂါ ကုသမှု အစီအစဉ်ကို ဆောင်ရွက်ပေးကာ ငွေကြေး ချို့တဲ့သူများ၏ မျက်စိအလင်းကို ပြန်လည်ရရှိစေခဲ့ပါသည်။ ထိုအစီအစဉ်သည် လူနာပေါင်း ၅၀၀၀ ကျော်ကို မျက်စိ စမ်းသပ်မှုများ ပြုလုပ်ပေးခဲ့ပြီး လူနာပေါင်း ၇၀၀ ကျော်ကို မျက်စိကုသပေးခဲ့ပါသည်။ ၂၀၁၄ ခုနှစ် ဖေဖော်ဝါရီလာတွင် ထီးချိုင့်မြို့နယ်နှင့် ကသာမြို့၌ မျက်စိရောဂါ ကုသမှု များကို လေးရက်ကြာ ဆောင်ရွက်ပေးခဲ့ပါသည်။ ထိုလေးရက်တွင် လိုအပ်သော လူနာများ၏ မျက်စိစမ်းသပ်မှုနှင့် အသေးစားမှ အကြီးစားမျက်စိခွဲစိတ်ကုသမှုများကို ပြုလုပ် ပေးခဲ့ပါသည်။ မြစ်ကြီးနားရှိ လူနာစုစုပေါင်း ၃၀၇၃ဦးကို မျက်စိစမ်းသပ်မှု ပြုလုပ်ပေးခဲ့ပြီး မျက်စိခွဲစိတ် ကုသမှုခံယူသူ လူနာပေါင်း ၄၃၂ ဦး ရှိခဲ့ပါသည်။

ပညာရေးနှင့် ပတ်သက်၍ စီမံကိန်း အဆိုပြုသူမှ စီမံကိန်း၏ ပတ်ဝန်းကျင်တွင် နေထိုင်ကြသော ရပ်ရွာထဲမှ နွမ်းပါးသော အထက်တန်းနှင့် အလယ်တန်း ကျောင်းသူကျောင်းသားများအတွက် ပညာသင်ဆု များ ပေးအပ်ရန် ရည်ရွယ်ပါသည်။ ၂၀၁၇ခုနှစ် မေလတွင် အ.မ.က (၂) ဘန့်ဘွေးကုန်း၊ ကျောက်တန်းမြို့နယ် မူလတန်းကျောင်းကို စားပွဲနှင့်ထိုင်ခုံများ၊ မြက် ရိတ်စက်များ၊ သင်ထောက်ကူပစ္စည်းအဖြစ် တီဗွီများ၊ ရေအေးစက်၊ ခြေသုတ်ခုံများ၊ ဘီဒိုများ စသဖြင့် လှူဒါန်းခဲ့ပါပြီး လူကူး တံတားတစ်ခု ဆောက်လုပ်ပေးခဲ့ပါသည်။ ထို့ပြင် စီမံကိန်း အဆိုပြုသူသည် သီလရှင်များ တည်ထောင်ထားသော ပရဟိတ အစီအစဉ်တွင် ပါဝင်ကာ အထက်ပါကျောင်းကို စားသုံးဆီများကို လှူဒါန်း ပေးခဲ့ပါသည်။

ထို့ပြင် မန္တလေးနှင့် စစ်ကိုင်း ဒေသကြီးများတွင် သန့်စင်ပြီး သောက်သုံးရေများ လှူဒါန်းရန် စီစဉ်လျက် ရှိပါသည်။

စီမံကိန်းအဆိုပြုသူသည် လာမည့်နှစ်များတွင်လည်း ဆက်လက်၍ မြန်မာနိုင်ငံ၏ ပညာရေးနှင့် စားဝတ်နေရေး ဖူလုံရေး အစီအစဉ်များတွင် ပါဝင်ဆောင်ရွက်သွားမည် ဖြစ်ပါသည်။

၇။ သုံးသပ်ချက်နှင့် အကြံပြုချက်များ

သီလဝါ ဆိပ်ကမ်းအကွက် အမှတ် (၂၀ နှင့် ၂၁) နှင့် အကွက် အမှတ် (၂၁ နှင့် ၂၂) အကြား သုံးပွင့်ဆိုင် မြေနေရာတွင် ဆန်ကြိတ်ခွဲ ထုတ်လုပ်သည့် လုပ်ငန်း၏ EMP လေ့လာချက်၏ တွေ့ရှိချက်များမှ အောက်ပါ အတိုင်း ဖြစ်ပါသည်။

၁။ ပတ်ဝန်းကျင်ထိခိုက်မှုနှင့် စပ်လျဉ်း၍ သက်ရောက်မှုအများစုသည် စီမံကိန်း ဧရိယာဝန်းကျင်တွင်သာ ဖြစ်မည်ဖြစ်ပါသည်။ အဓိက ဆိုးကျိုးသက်ရောက်မှုများမှာ လေထုညစ်ညမ်းမှု၊ ရေအရည်အသွေး ကျဆင်းမှု၊ အစိုင်အခဲ စွန့်ပစ် ပစ္စည်းများ၊ ဆူညံသံနှင့် တုန်ခါမှု ထွက်ပေါ်ခြင်းတို့ ဖြစ်မည်ဟု ခန့်မှန်းရပါသည်။ သို့သော် လုံလောက်သော ဘေးလျော့ပါးစေရေးဆောင်ရွက်ချက်များနှင့် စီမံခန့်ခွဲမှု အစီအစဉ်များသည် ထိုသက်ရောက်မှုများကို လျော့နည်းစေမည် ဖြစ်ပါသည်။ ဖုန်မှုန့်များနှင့် PM များထွက်ရှိမှုသည် သင့်တော်သော အစွပ်များ၊ အကာအရံများနှင့် ဇကာအိတ် (Bag Filter) စသော အောက်ပါ ဘေးလျော့ပါးစေရေး နည်းလမ်းများကို လုပ်ဆောင်မှု ကြောင့် သိသိသာသာ လျော့နည်းမည် ဖြစ်သည်။ လုပ်ငန်းသုံးရေဆိုးများကို သန့်စင်ရန် ရေဆိုးသန့်စင်စနစ်များကို တပ်ဆင်ထားခြင်း၊ အစိုင်အခဲစွန့်ပစ်ပစ္စည်းများကို စနစ်ကျသော စီမံခန့်ခွဲမှုစနစ်များဖြင့် စွန့်ပစ်ခြင်း၊ ဓာတုပစ္စည်းများကဲ့သို့သော အန္တရာယ်ရှိသော ပစ္စည်းများအတွက် စနစ်ကျသော စီမံခန့်ခွဲမှုစနစ်များအသုံးပြုခြင်း၊ ဆူညံသံနှင့်တုန်ခါမှု အဆင့်များကို သတ်မှတ်ထားသော စံချိန်စံနှုန်းများအတိုင်း လုပ်ဆောင်ခြင်းတို့ ပြုလုပ်ပါမည်။

၂။ သဘာဝပတ်ဝန်းကျင်နှင့် စပ်လျဉ်း၍ အခြေခံ အဆောက်အအုံ တိုးချဲ့စီမံကိန်းအရ စီမံကိန်းမြေ ဧရိယာသည် လုပ်ဆောင်ပြီး ဖြစ်သဖြင့် ဤစီမံကိန်းကြောင့် ဆိုးကျိုးသက်ရောက်မှု ရှိမည် မဟုတ်ပါ။ ထို့ပြင် သစ်ပင် ပန်းမန် စိုက်ပျိုးခြင်း၊ အပန်းဖြေနေရာများ ပြုလုပ်ပေးခြင်းတို့ ဆောင်ရွက်မည် ဖြစ်ပါသည်။

၃။ လူမှုရေးဆိုင်ရာ ထိခိုက်မှုများနှင့် စပ်လျဉ်း၍ မြေသိမ်းယူမှုနှင့် ဆန္ဒမပါသော နေရာပြောင်းရွှေ့ရမှုများ လုပ်ဆောင်ပြီး ဖြစ်သဖြင့် ဤစီမံကိန်းကြောင့် ဆိုးကျိုးသက်ရောက်မှုများ ရှိမည် မဟုတ်ပါ။ အခြားတစ်ဖက်တွင် စီမံကိန်းအကောင်အထည်ဖော်မှုကြောင့် အလုပ်အကိုင်အခွင့်အလမ်း တိုးတက်ခြင်းစသော ကောင်းကျိုးသက်ရောက်မှုများ ဖြစ်ပေါ်လာမည်ဟု ခန့်မှန်းရပါသည်။

၄။ ကျန်းမာရေးနှင့် ဘေးအန္တရာယ်ကင်းရှင်းရေးနှင့် စပ်လျဉ်း၍ လုပ်ငန်းခွင်ဆိုင်ရာနှင့် လူမှုဝန်းကျင်ဆိုင်ရာ သက်ရောက်မှု အချို့နှင့် မတော်တဆဖြစ်မှု တိုးမြင့်လာခြင်းတို့ ဖြစ်လာနိုင်ပါသည်။ သို့ရာတွင် စီမံကိန်းလည်ပတ်ရာတွင် လုံလောက်ကောင်းမွန်သော လုပ်ငန်းခွင်ဆိုင်ရာ ဘေးလျော့ပါးစေရေးနှင့် စီမံခန့်ခွဲရေး အစီအစဉ်များကို ထည့်သွင်း စဉ်းစားလုပ်ဆောင်ပြီး မတော်တဆဖြစ်မှု ကာကွယ်ခြင်း အစီအစဉ်များကို ဆောင်ရွက်ခြင်းဖြင့် သက်ရောက်မှုကို အနည်းဆုံးဖြစ်စေမည် ဖြစ်ပါသည်။

၅။ ဤစီမံကိန်းအတွက် EMP လေ့လာမှု ဆောင်ရွက်ခြင်း ရလဒ်အရ လုပ်ငန်းလည်ပတ်သည့် အဆင့်တွင် ပုံမှန်လုပ်ဆောင်ရမည့် ပတ်ဝန်းကျင်ဆိုင်ရာ စောင့်ကြပ်ကြည့်ရှုမှု အစီအစဉ်များကို အဆိုပြုတင်ပြထားပါသည်။ ဘေးလျော့ပါးစေရေး နည်းလမ်းများ၏ ထိရောက်မှုကို သိရှိစေရန် ထိုအစီအစဉ်များကို ကောင်းမွန်စွာ လိုက်နာ လုပ်ဆောင်သွားမည် ဖြစ်ပါသည်။

ယခု EMP လေ့လာမှု အစီအရင်ခံစာတွင် ပတ်ဝန်းကျင်ထိခိုက်မှု ဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်းနှင့် အညီ စီမံကိန်းကြောင့် ဖြစ်ပေါ်လာနိုင်မည့် သက်ရောက်မှုများကို လေ့လာဆန်းစစ်ထားပြီး ပတ်ဝန်းကျင်ဆိုင်ရာစီမံခန့်ခွဲမှု အစီအစဉ်ကိုလည်း စဉ်းစားဖော်ပြထားပါသည်။ သို့ဖြစ်၍ စီမံကိန်းအဆိုပြုသူသည် ဤEMP အစီအရင်ခံစာတွင် ဖော်ပြထားသည့်အတိုင်း စီမံကိန်း အကောင်အထည်ဖော်ဆောင်ရွက်ပါက ဆိုးကျိုးသက်ရောက်မှုများ အနည်းဆုံး ဖြစ်မည်ဟု လေ့လာသုံးသပ်ရပါသည်။

Executive Summary

1. Introduction

1.1 Project Overview

Project title: The Project on Operation for Rice Mill of Wilmar Myanmar Riceland Ltd.in Thilawa Port Plot No. (20 & 21) & Triangle Land between Plot (21 & 22)

Project owner: Wilmar Myanmar Riceland Ltd.

Address: 56 Neil Road Singapore 088830

1.2 Purpose of Project and Production Amount

The project is planned to develop factory of rice mill. The rice mills, with further expansion, may be developed for a designed production capacity up to 1800 MTPD (paddy basis)/ 400 MTPD (344 MTPD of Rice Bran Meal & 56 MTPD of Rice Crude Oil).

1.3 Overall Schedule of EMP Study

The overall schedule for Environmental Management Plan (EMP) is as shown in Table 1.

Table 1 Overall Schedule for Environmental Management Plan

Item	Schedule (Date)															
	Week (July – August)															
	1		2		3		4		5		6		7		8	
Scope of Services																
1) Identification of Env. & Social Issues and Environmental Design																
i) Identification of Env. & Social Issue	■	■	■													
ii) Setting Environmental Standard to be applied				■	■	■										
2) Desk Survey																
i) Secondary Data Review & Summarization							■	■								
3) Reporting and Attendance of PAT meeting																
i) Environmental & Social Documents for MIC Application (Submission of ESIA)									■	■	■	■				
ii) Attendance of PAT meeting												-	-	-	-	

Source: EMP study team

The Ministry of Natural Resources and Environmental Conservation (MONREC) has been announced the stipulation of the EIA procedures in which defines detailed legal process for preparation of Environmental Management Plan, Initial Environmental Examination (IEE) Report and Environmental Impact Assessment (EIA) Report in Dec 2015. Basically, the EIA Procedure covers contents such as screening of projects, qualification for conducting EIA/ IEE/ EMP studies, preparation of EIA/IEE report, environmental management plan (EMP), public involvement, approval of EIA/IEE/EMP report by MONREC, and monitoring process after approval of EIA/IEE/EMP report and etc.

1.4 Implementation Organization for EMP Study

The organization in charge of implementation of Environmental Management Plan (EMP) is Myanmar Koei International Ltd. and detail information of the study team are presented in Table 2 and Table 3. The CVs of each expert are described in Appendix 1.

Table 2 Organizations in-charge of the EMP Study

Name of Organization	Address	Registration No.	Responsibility
Myanmar Koei International Ltd. (MKI)	No. (1A/28), Mya Thidar Housing, Ward 11, South Okkalapa Township. Yangon, Myanmar Tel: +95-1-8500107 Fax: +95-1-8500107 E-mail: info@myanmar-koei.com myanmarkoei@gmail.com	0024	Overall management of technical aspect of EMP Study

Source: EMP study team

Table 3 Members of EMP Study Team

Name of Organization	Name	Position	Background	Years of Experience
Myanmar Koei International Co., Ltd.	Mr. Atsushi Minami	Team Leader	M.Sc. (Human Environment) B.Sc. (Human Environment)	11 years
	Mr. Khin Maung Thane	Environmental Expert	B.Sc. (Physics)	10 years
	Ms. May Myo Myint	Pollution Control Expert	B.E (Naval Architecture)	2 years
	Ms. Khin Sandi Kyaw	Environmental and Social Expert	BE (Chemical)	6 years
	Ms. Theint Twetar Oo	Jr. Environmental and Social Expert	B.E (Civil) M.E (Geotechnical Engineering)	1 year

Source: EMP study team

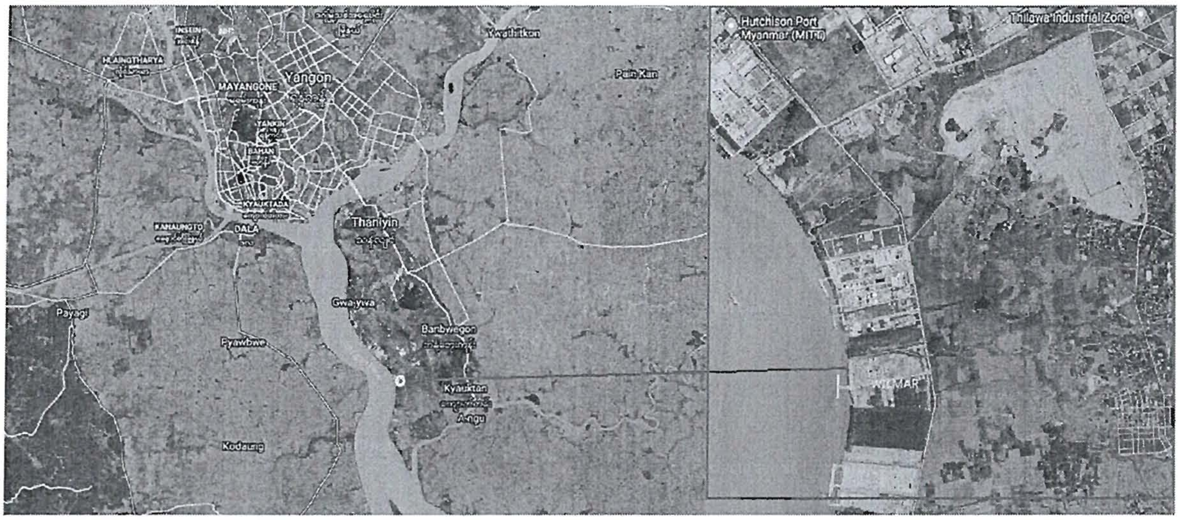
1.5 Background of Project

The project will include construction of some factories on a designated area of which basic infrastructure has been developed therebefore and operation of the factories after the construction would be completed. The developed infrastructure includes a multi-purpose wharf, foundation of the area, a drainage system including a diversion channel, internal roads, and a surrounding wall. The project for infrastructure development has been evaluated previously with regarding to environmental and social impact assessment, including a RAP.

2. Project Description

2.1 Location of Project

The project is located in Thilawa Port Plot No. (20 & 21) and the triangle land between Plot No. 21 and 22 in Kyauktan township (Yangon division) and situated along the east bank of Yangon river. The project area is 2.99 ha (7.4 acre) in totally 40.52 ha, comprising 30 ha of Plot No. 20 & 21 and 10.52 ha of the triangle land between Plot No. 21 and 22. The location of the project is displayed in Figure 1 . Baybauk Creek (Pa Lan Chaung) passes through the project area, including plots no. 20, 21, and the triangle land between plots 21 and 22, before discharging to Yangon river.

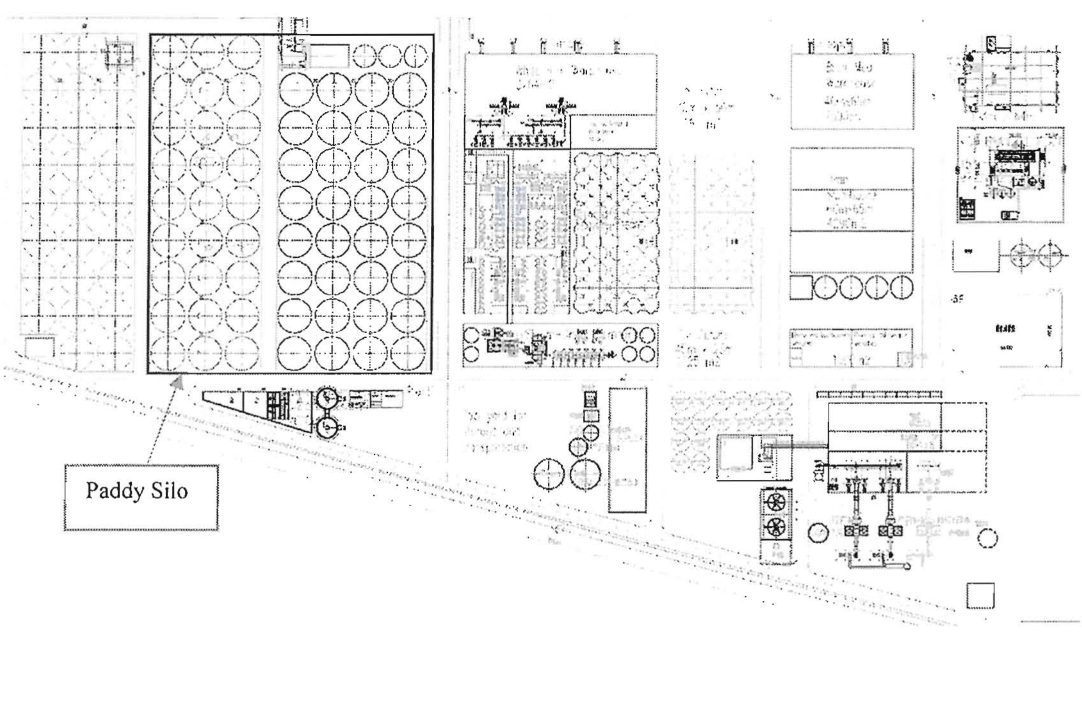


Source: Wilmar Myanmar Riceland Ltd.

Figure 1 Location of the Project Area at Thilawa Port area

2.2 Project Layout

The project is planned to develop factory of rice mill. Layout of the project and arrangement of the proposed factories inside the project area is illustrated in Figure 2 .



Source: Wilmar Myanmar Riceland Ltd.
Note: Clear A3 Size Drawing in Appendix

Figure 2 Project Layout and Facilities

2.3 Project Schedule

The project is expected to be constructed from November 2018 to November 2020. The preliminary project schedule is shown in Table 4.

Table 4 Preliminary Project Schedule

Year/Activities	2018				2019				2020			
	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th
EMP Study and Designing												
Construction of Rice mill plant												
Operation of Rice mill plant												

Source: Wilmar Myanmar Riceland Ltd.

2.4 Employee Schedule

The operation will have the total of 123 full-time employees and the details of the employment are shown in Table 5.

Table 5 Number of Employees of Different Departments

Department	Occupation	Number of Employees
	Manager	1
Rice Mill	Executive	4
	Engineer	1
	Shift Miller	10
	Warehouse Manager	1
	Office Staff	2
	Operator	39
Electricity	Executive	2
	Engineer	3
	Shift Miller	3
	Operator	18
Oil Extraction	Executive	1
	Shift Miller	3
	Operator	18
Quality Control	Executive	2
	QC & QA	2
	Office Staff	1
	Lab Technician	12
	Total	123

Source: Wilmar Myanmar Riceland Ltd.

2.5 Project Facilities

The facilities in the plant will include:

i) Silos for storage
ii) Milling facilities
iii) Parboiling facilities
iv) Rice bran oil extraction facilities
v) Product warehouse (rice and bran)

Auxiliary facilities in the plant will include:

i) Two (2) Boilers
ii) Two (2) Generators

2.6 Raw Materials and Products

The main raw material for the whole production process will be paddy. The paddy will be transported from Ayeyarwaddy Division, Bago East & West Division, Sagaing Division, Mandalay Division to Thilawa via inland waterway or by truck/ by train. Daily consumption of the paddy will be 1,800 tons.

Details of output products and type of package are presented in Table 6.

Table 6 Raw Material and Output Products of Rice Mill Project

Input raw materials	Output Products & Types of Package		
	Items	In bulk	In bag
Paddy	White Rice and White Rice Broken	In bulk	different sizes of bag (made from PP, PE, Paper)
	Parboiled Rice and Parboiled Broken	In bulk	different sizes of bag (made from PP, PE, Paper)
	Rice Bran Oil	In bulk	different sizes of bag (made from PP, PE, Paper)
	Defatted Rice Bran	In bulk	different sizes of bag (made from PP, PE, Paper)

Source: Wilmar Myanmar Riceland Ltd.

According to the information of Rice Knowledge Bank, developed by International Rice Research Institute (IRRI), most rice varieties are composed of roughly 20% of rice husk, 11% of bran layers and 69% starchy endosperm (total milled rice).

2.7 Storage Area

Paddy which is the main raw material for the production process will be stored in steel silos. There will be 27 steel silos for Phase (I), and 32 silos for Phase (II) on site, each of which can store 3,000 Ton of paddy, as shown in Figure 2. Total estimated amount of paddy that can be stored on site will be 1,770,000 tons. There are 16 silos of 200T for husk storage (total 3,200T) and 4 silos of 500T for bran storage (total 2,000T). Chemicals will be stored in Chemical Store Area.

Table 7 List of Storage Areas

No.	Storage Areas	Size
1.	White Rice Warehouse	3,264 m^2
2.	Packing Material Warehouse	810 m^2
3.	Bran Meal Warehouse	2,600 m^2
4.	Bran Warehouse	4,290 m^2

Source: Wilmar Myanmar Riceland Ltd.

Additionally, there will be two temporary solid waste storage area with the total storage amount of 200 ton. The solid waste will be collected and disposed by a third party company.

2.8 Auxiliary Facilities

The specifications of the boilers are described in Table 8.

Table 8 Specifications of Boilers

Type of Boilers	Circulating fluidized bed (CFB)
HP Boiler Units	2 Nos
HP Boiler rated capacity	50 ton/hr

Type of Boilers	Circulating fluidized bed (CFB)
Type of fuel	Rice Husk and palm shells
Rice husk consumption	132,000 ton/year

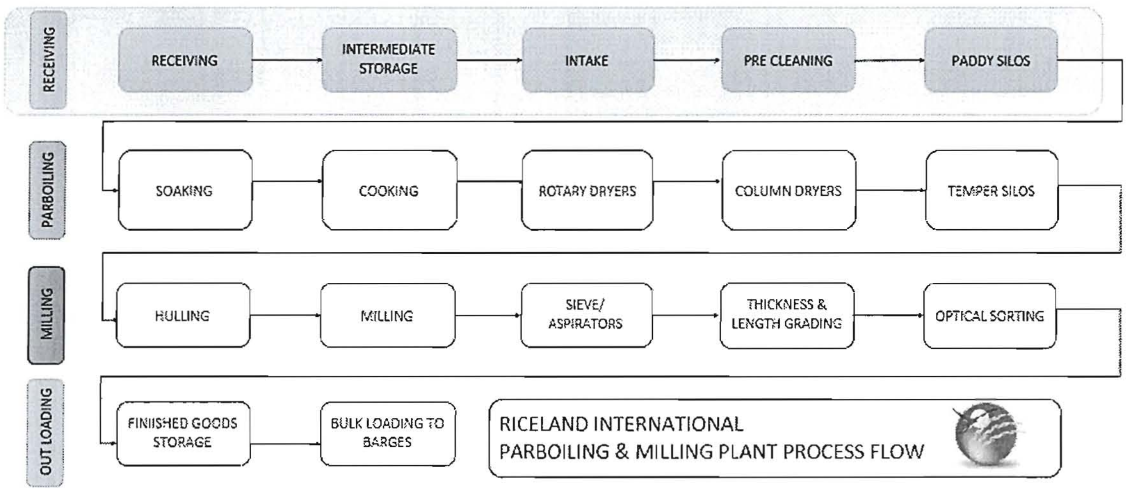
Source: Wilmar Myanmar Riceland Ltd.

2.9 Production Process

1) Parboiling & Milling Line

Parboiling

Parboiling is the partial cooking of rice in steam. In parboiling process, the paddies are received from various areas and pre-cleaned. Then the paddies are soaked in warm water (60-70 °C) for 4 hours and drained. Steam cook The paddy is then steam cooked and the parboiled paddy is dried and stored in tempering bins and then the same milling steps as white rice will be followed. The flow chart for parboiling activities are shown in Figure 3.

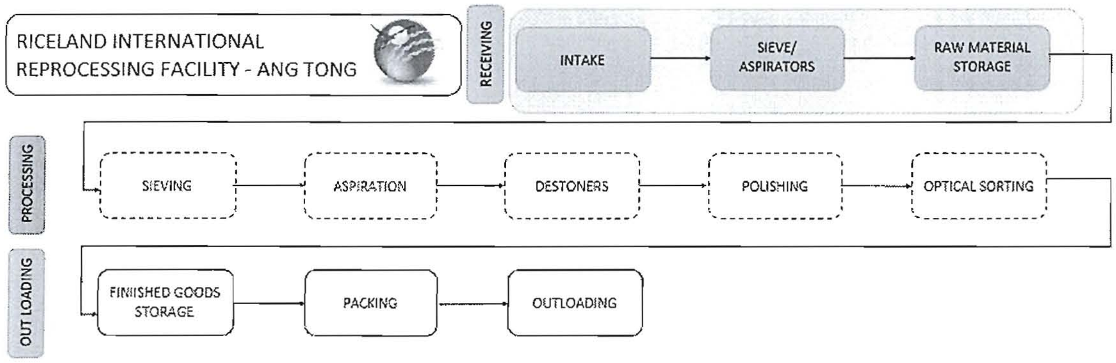


Source: Wilmar Myanmar Riceland Ltd.

Figure 3 Parboiling Milling Process Flow-Chart

Milling (for White and Parboiled paddy)

The paddy is taken from the tempering/storage bins where it is de-husked to get brown rice. The brown rice is passed through the whitening stages (1-3) and broken rice (1-4) will be separated from head rice. Electrical sorting will be done to separate rejects from rice and pass the rice through polisher, packing and store in warehouse. The flow chart for milling activities is shown in Figure 4.



Source: Wilmar Myanmar Riceland Ltd.

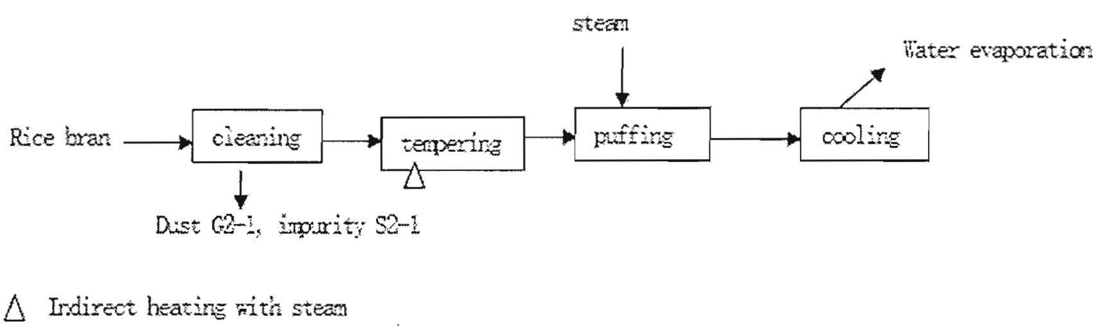
Figure 4 Milling Process Flow-Chart (for White and Parboiled Rice)

2) Rice Bran Oil Extraction Line

The rice bran from the parboiling and milling line will be further processed in rice bran oil extraction line which with the capacity of 400 MTPD.

1. Rice bran puffing (process of rice bran puffing workshop)

Process flow: Rice bran is cleaned by advanced and efficient vibration cleaning sieve in China to remove rice bran rice indica and other impurities, puffed after cleaning and followed by cooling air at the workshop taking. The process flow of the rice bran puffing workshop is shown in Figure 5.



Source: Wilmar Myanmar Riceland Ltd.

Figure 5 Rice Bran Oil Puffing Workshop Process Flow Chart

Cleaning

Rice bran will have some impurities in harvesting, transportation and storage. Although rice bran is usually cleaned before storage, there are still a few impurities in rice bran after initial cleaning. So, this can not meet the requirements of oil production. Therefore, rice bran needs to be further cleaned after entering the production plant, its impurity content should be reduced to the scope of process requirements to ensure process effectiveness and product quality.

Tempering

The purpose of quenching and tempering is to control the moisture and humidity of materials and make them expand. When the temperature is too low, the viscosity ot the oil is too high and the oil is less produced. When the temperature is too high, more oil is produced during extrusion. But because of protein denaturation, the extrusion process cannot produce bonding, and the powder size of the extruded material is large, which affects the solvent permeation.

Puffing

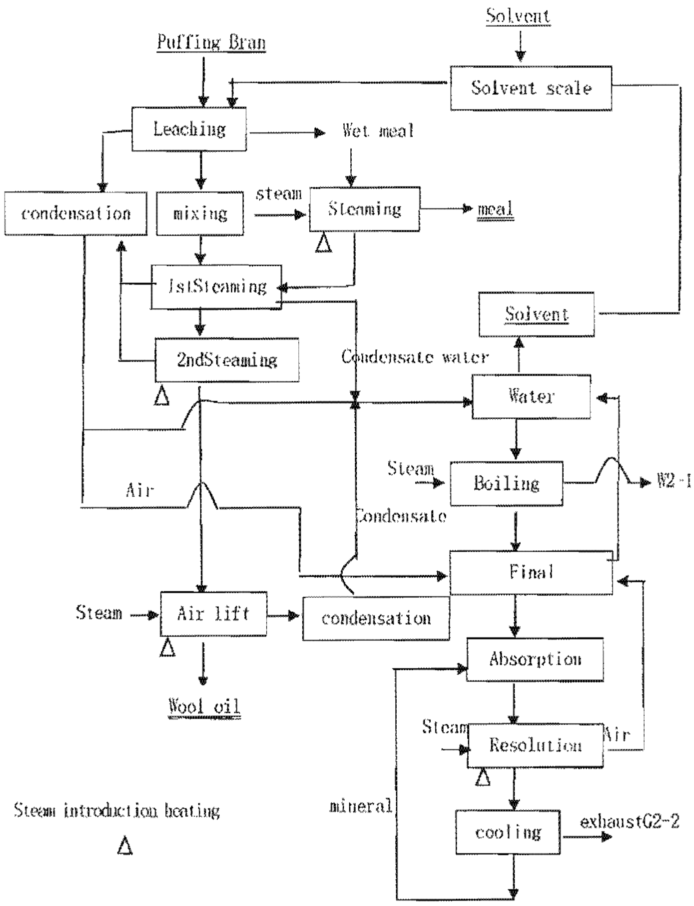
The purpose of puffing is to destroy the cell structure of oil, improve the effect of oil extraction, improve the quality of crude oil and reduce the content of non-hydrated phospholipids. The process passes through steam directly.

Cooling

The purpose of cooling is to adjust the temperature and moisture content of the extruded material so as to satisfy the requirements of extraction.

2. Rice bran extraction (rice bran extraction workshop process)

Process flow: Puffed rice bran from pretreatment workshop enters the annular leacher, and extracts the neutral oil from rice bran by solvent extraction. The extracted rice bran enters the evaporator to remove the solvent oil contained in rice bran, and then the puffed rice bran meal for feed is obtained by adjusting the moisture and temperature. The mixed oil formed from the extracted neutral oil and solvent oil is separated from solid impurities and then enters the solvent evaporation system to evaporate the solvent. The crude rice bran oil is obtained. The crude rice bran oil enters the refinery workshop to produce the refined rice bran oil. Solvent vapor and mixed vapor separated from the evaporator and solvent evaporation system are recycled by indirect condensation. The process flow of the rice bran oil extraction is shown Figure 6.



Source: Wilmar Myanmar Riceland Ltd.

Figure 6 Rice Bran Oil Extraction Process Flow Chart

Puffed rice bran extraction

The extruded rice bran from the pretreatment workshop is fed into the enclosed winch through the inclined scraper, and then dispersed into the grating plate of the leacher through the feed hopper of the annular leacher. The annular leacher has the characteristics of small solvent addition and high solvent utilization rate, and the extraction temperature is controlled at 55 C. With the operation of the scraper chain, the billet is circularly sprayed with mixed oil of different concentration gradients from the upper to the lower part, and then dried by fresh solvent spraying, and then dried by a drip section. The oil is extracted and separated into mixed oil and wet meal.

Wet meal evaporation system

The extracted wet meal is extruded by the wet meal scraper and sent to the steamer for multi-stage desolvation. The temperature is controlled by steam heating at 80-115 C. The solvent and water in the meal are removed and cooled. The moisture and temperature of the meal meet the storage requirements. The meal is sent to the meal storage by the conveyor.

The exhaust gas from the evaporation process enters the primary evaporator which evaporates the mixed oil. The heat is used to heat up the mixed oil. Some of the exhaust gas is condensed down into the water distribution tank. The uncooled solvent exhaust gas enters the condenser and condenses again.

Evaporation system

The evaporation of mixed oil is a process in which the solvent n-hexane vaporizes most of the solvent n-hexane and is separated from the oil by heating because the oil is almost non-volatile and the solvent n-hexane boiling point is low and easy to volatilize.

The mixed oil is evaporated by solvent after removing impurities from the filter. A small amount of impurities produced by impurity removal is recovered and entered into the extractor. This project uses two long tube evaporators. The long tube evaporator is characterized by a long heating pipe. After preheating, the mixed oil enters the heating pipe from the lower part and boils rapidly, producing a large number of steam bubbles and rising rapidly. The oil mixture is also driven by rising vapor bubbles and dragged into a liquid film rising along the wall of the tube, during which the solvent continues to evaporate. Because of heat transfer in thin film, evaporation efficiency is high. The evaporated solvent enters the condenser to recover the solvent. The crude oil is then reinjected into the steam stripping unit.

Stripping

Stripping is called steam distillation. This project adopts a layer dish stripper. The principle is that the mixed oil is insoluble with water, and a certain pressure of direct steam is injected into the concentrated mixed oil with a high boiling point. At the same time, indirect steam is heated to 110-115 C in the jacket of the equipment, so that the direct steam into the mixed oil does not condensate. The boiling point of the solvent with high boiling point is reduced by the equilibrium of the sum of the vapor pressure of the direct vapor and the solvent with the external pressure. Direct steam entrains distilled solvent together into the condenser for condensation recovery, so as to obtain the product of this project extraction crude oil. The non-condensable gas after the condenser enters the final condenser to condense again, and the liquid produced by the condensation enters the solvent recovery system.

N-hexane recovery

All the n-hexane gases produced by this project enter the condenser for condensation. The liquid produced by condensation is mainly solvent and water. The liquid is separated by two kinds of insolubility in the water distribution tank. The n-hexane is further evaporated into the condenser for solvent recovery, and the resulting wastewater enters the water seal tank for oil-water separation and enters the sewage treatment plant.

The uncooled gas enters the cold mineral oil absorption tower and absorbs trace solvents in the uncooled gas according to the principle of mutual solubility of organic solvents. The non-condensable gas is exhausted outside the workshop by the exhaust fan, and the exhaust gas is automatically controlled by the solenoid valve, so as to ensure that the equipment in the workshop is in the state of micro-negative pressure. After the mineral oil absorbs the solvent, it is heated and controlled by the analytic tower to separate the solvent from the mineral oil. Solvent tanks are produced in the workshop, and the separated thermal mineral oil is circulated into the mineral oil system through a cooling device.

In this project, rice bran meal is transported in a closed pipeline during storage. The odor pollution has little impact on the ambient air environment. However, pollution control and management should be strengthened to reduce the occurrence of abnormal discharge. The odor pollution can be controlled.

2.10 Water Drainage and Wastewater Treatment System

The amount of daily requirement for water is provided below together with the amount of wastewater to be generated.

Table 9 Daily Amount of Water Usage and Wastewater Discharge

Item	Type of Water	Amount	
Daily amount of water use	Total	10,000 ton/day	10,000 m^3/day
Daily amount of wastewater discharge	From Production Processes (Parboiling & Oil Extraction)	600 ton/day	600 m^3/day
	Other (Canteen, Office, Toilet, etc.)	20 ton/day	20 m^3/day
	Total	620 ton/day	620 m^3/day

Source: Wilmar Myanmar Riceland Ltd.

There will be ten septic tanks for domestic wastewater storage. Main water drainage system has been constructed previously. Main diversion channel was built to receive water from Baybauk creek and is discharged into Yangon river.

Before discharging to the drainage system, the wastewaters from the operations and maintenance will be treated by using waste water treatment system which has the capacity of 1000 ton per day.

2.11 Electricity, Fuel and Water Consumption

The estimated amount of water and electricity consumption during the commercial operation stage is shown in the following Table 10.

Table 10 Estimated Amount of Water & Electricity Consumption

Quantity	Unit	Year 1 - 50
Electricity	kWH	73,930,000
Fuel – diesel	ton	200~300
Water	ton	3,000,000

Source: Wilmar Myanmar Riceland Ltd.

3. Evaluation of Environmental Impacts

3.1 General Methodology

The impacts of pollution, natural environment, social environment, health and safety and other concerned issues are classified as A to D in accordance with the following criteria.

A+/-: Significant positive/negative impact is expected
B+/-: Positive/negative impact is expected to some extent
C+/-: Extent of positive/negative impact is unknown (A further examination is needed, and the impact could be clarified as the study progresses)
D: No impact is expected (or) impacts are insignificant

3.2 Summary of Impact Assessment Results

Table 11 shows the summarizes assessment results on different aspects for pollution, natural environment, social environment, health and safety, emergency risk, and transboundary impacts/climate change in the operation stages, assuming that specific measures towards the impacts are taken.

Table 11 Results of Environmental Management Plan in the Operation Stage

Category	Impact items	EMP Evaluation		Results of Assessment
		Initial Investigation	EMP	
Pollution	Air pollution	B-	D	PM from production processes (rice milling) and transferring and handling of materials and products would be significantly minimized and properly discharged and treated by the usage & design of suitable hoods/enclosure and bag filters as well as other measures include but not limited to the following: -covering skips, silos, stockpiles & using water spraying & other stockpile management techniques -performing production in enclosed system -discharging exhaust gas from boilers by stacks with sufficient height -regular monitoring of ambient air quality (SO_2, NO_2, CO, PM_{10}, $PM_{2.5}$) Therefore, the impacts of air emission from the project activities would be less than significant.
	Water pollution	B-	D	The impacts of storm water, domestic and industrial wastewater generated from the project site would be less than significant during operation stage. Storm water will be collected by the provision of site drainage system and discharged to the surrounding public drain system. Domestic wastewater and washed water for cleaning facilities would be collected and treated in well maintained septic tanks. Any industrial wastewater generated from production and associated processes would be treated properly by the installed waste water treatment system. Other measure include: -installation of oil traps/separators at drain inlets as necessary -regular monitoring of storm water quality, drainage water quality at outlets to nearby waterbodies, & water quality at receiving surface water bodies, discharge quality of wastewater treatment systems Therefore, the impacts of water pollution from the project activities will be considered insignificant.
	Waste	B-	D	Solid waste generated from the project activities would be collected, classified and treated or disposed of properly by a well-designed system. Recyclable waste would be either on-site recycled by the project proponent or recycling individuals/ firms. Non-recyclable and hazardous waste would be segregated on-site, collected, transported and treated by authorized firms. Other measures include: -regular inspection for control of waste -monitoring of generated wastes, recycled wastes & disposed wastes The impacts of solid waste generated from the project activities would be considered less than significant during operation stage.
	Hazardous Materials	B-	D	Hazardous chemicals used for manufacturing and rice bran oil extraction (diesel oil and hexane solvent) would be properly stored, utilized and disposed in accordance to well established procedures during the operation stage. As a result, impacts of hazardous materials used in the factory would not be significant.
	Soil Contamination	B-	D	The impact from soil contamination in the operation stage is not expected as spillovers and infiltration of hazardous substances to sub-soil surfaces will be eliminated with the implementation of prevention measures such as thick concrete flooring with adequate in-house drains, proper management of chemicals. Provision of spill kits to mitigate any accidental spill overs will lessen the impact of soil contamination. Therefore, the impact of soil contamination in the factory will not be significant.
	Noise & Vibration	B-	D	Noise and vibration generated from operation of the project activities in operation stage would be considered less than significant. Noise and vibration levels estimated at most of surrounding receivers would comply with the standards. The unique attention is the case that workers standing (<20 m) near big machines during working hours should wear sound-proof aural devices. Management system such as job rotation and rest breaks will be implemented for noisy operations.

Category	Impact items	EMP Evaluation		Results of Assessment
		Initial Investigation	EMP	
	Offensive odor	B-	D	Offensive odor from project area is anticipated to some extent due to the paddy soaking, parboiling activities & boiler blow down of the rice mill and the smell is found to be of unpleasant and foul. Some measures include: -Examination of operating processes using materials -Effective odor collection (duct work, suction gas volume) -Maintenance & inspection (daily check, periodical inspection, odor measurement Therefore, the impact of offensive odor in the factory would not be significant.
	Local economy (employment & livelihood, etc.)	C+	D	Local economy will be boosted to some extent in operation stage of the project. Therefore, the impact on the local economy from the project activities will be positively significant.
	Water use	C-	D	Extraction rate of the project is not expected to affect the water volume or flow of Yangon river. Some measures as below mentioned will ease the impact of water use: -reusing & recycling water as much as possible -finding improvement on design & technology for domestic and industrial activities to save water Therefore, the impact of water use by the project would not be significant.
Occupational health and safety	Air Quality	B-	D	Measures will be taken as below: -Provide worker with adequate and appropriate PPE -Face masks with 95% effectiveness -Establish speed limits -Regular maintenance of factory vehicles, machines, boilers, equipment -Provision of adequate ventilation & fans inside the factory Therefore, due to the implementation of above-mentioned mitigation measures, the impact of air pollution on the workers will be considered insignificant.
	Heat Exposure	B-	D	Measures will be taken as below: -Provide immediate medical attention should the need arise -Provide cool, shaded areas for resting & adequate indoor ventilation -Wear loose, comfortable clothing -Drink plenty of water, provide easily accessible portable safe drinking water -Avoid alcoholic drinks & excessive caffeine -Implement rest breaks & job rotation -Use machine & equipment to reduce physical work -Schedule strenuous work to cooler times of the day -Monitor weather reports & schedule work accordingly Therefore, due to the implementation of above-mentioned mitigation measures, the impact of heat exposure on the workers will be considered insignificant.
	Noise and Vibration	B-	D	Measures will be taken as below; -Workers should not be exposed to a noise level greater than 85 dB(A) for more than 8 hours per day -Provide adequate PPE (ear plugs/muffs), (appropriate gloves to reduce vibration impact) -Select & use of less-vibrating equipment -Limit time of exposure, implement job rotation, rest breaks -Regular inspection, maintenance & servicing of vehicles, machines, equipment, generator to reduce noise emission -Site/place potential noise emitting & vibrating machines and equipment inside enclosure on its own foundation Therefore, due to the implementation of above-mentioned mitigation

Category	Impact items	EMP Evaluation		Results of Assessment
		Initial Investigation	EMP	
				measures, the impact of noise & vibration on the workers will be considered insignificant.
	Workplace Injuries	B-	D	Measures will be taken as below: -Implement workplace violence employee training to watch for suspicious & aggressive behavior -Use of certified lifting equipment -Use of PPE (Hard hats, gloves, boots, reflective vests, etc.) -Ensure machines & equipment are in good working condition and safety measures (machine safe-guards, emergency stop switch/buttons) are in place -Regular inspection, maintenance & servicing of vehicles, machines, equipment in the workplace -Certification & licensing of drivers, machine operators, electrical workers, chemical workers & compliance to the respective safety rules & regulations -Provision of handrails, railings, barricades, danger & warning signages to prevent accidents -Use of safety harnesses, life-lines, anchors, ladders, scaffolding during working at height -To prevent overexertion, job rotations, rest breaks, usage of machinery/equipment to assist in the work should be implemented -Confined space work should be checked for options & alternative, Permit to Work obtained, provision of breathing apparatus & ventilation, safe access & egress, buddy system, rescue drills Therefore, due to the implementation of the above-mentioned mitigation measures, the impact of workplace injuries on the workers will be considered insignificant.
	Hazardous Materials	B-	D	Measures will be taken as below: -Implement proper hazardous material management plan -Plan usage & handling of chemicals -Provide proper & adequate storing facilities for hazardous materials -Ensure storage facility complies to local fire safety regulation & procedure -Ensure containers/vessels containing hazardous materials are properly marked & labelled & respective MSDSs are available -Storage tanks (e.g. for diesel & LPG) must be provided with bund walls (for diesel), provided with fencing, checked regularly for spills & leakages Therefore, due to the implementation of the above-mentioned mitigation measures, the impact of hazardous materials on the workers will be considered insignificant.
	Communicable Diseases	B-	D	Measures will be taken as below: -Provide health surveillance for employees -Implement health awareness & educational briefings on the risks, prevention & available treatment -Encourage personal hygiene, cleanliness & habits -Take precautionary measures during outbreaks of communicable diseases in the surrounding community -Provide clean & sanitary facilities (canteen, kitchen, eating areas, adequate toilets, etc.) -Ensure proper housekeeping is conducted daily -Ensure proper covering of food, disposal of food -Prohibit consumption of food & drinks outside permitted area (especially in labs, chemical storage, toilets, etc.) -Clear away water ponding & stagnant water in the factory premises to prevent mosquito breeding Therefore, due to the implementation of the above-mentioned mitigation measures, the impact of communicable diseases on the workers will be considered insignificant.

Category	Impact items	EMP Evaluation		Results of Assessment
		Initial Investigation	EMP	
	Others	B-	D	Measures will be taken as below: -Conduct safety meetings, safety trainings, toolbox meeting, site induction & orientation, educational briefings -Issue adequate PPE (Safety hard helmets, overall clothing, face masks with adequate filters, gloves, ear plugs/muffs, safety footwear, etc.) -Machinery & equipment check -Housekeeping check -Implement Permit to Work System (hot works, lifting, work at height, evacuation, confined space) -Records of accidents, incidents, infectious diseases occurrences -Provision of on-site health care facilities (first aid room) & personnel (certified first aider, nurse) Therefore, due to the implementation of the above-mentioned mitigation measures, the impact of general & other issues on the workers will considered insignificant.
Community health and safety	Air Pollution	B-	D	Measures will be taken as below: -Implement regular water spraying on dust emitting surfaces -Establish speed limits within site zone -Provide speed humps -Ensure vehicles with loads are covered adequately to prevent release into the air and spillages on the public roads -Regular inspection, servicing & maintenance of vehicles and machineries -Ensure air emission from the factory to the environment do not affect the local community -Air emission quality must follow local standards & regulations Therefore, due to the implementation of the above-mentioned mitigation measures, the impact of air pollution on the community will be considered insignificant.
	Water Pollution	B-	D	Measures will be taken as below: -Ensure discharges into public drains and waterways do not affect the local community -Treated wastewater must follow local standards & regulations -Ensure proper operation of waste water treatment systems Therefore, due to the implementation of the above-mentioned mitigation measures, the impact of water pollution on the community will be considered insignificant.
	Solid Waste Pollution & Offensive Odor	B-	D	Measures will be taken as below: -Ensure regular waste collection and to not allow to pile up on site -Ensure waste, rubbish, etc. from the factory are properly disposed at designated disposal sites -Ensure the soaking operation is inside enclosure -Ensure proper management of septic tanks (covering, vacuuming when full, etc.) Therefore, due to the implementation of the above-mentioned mitigation measures, the impact of solid waste & offensive odor on the community will be considered insignificant.
	Noise and Vibration Impact	B-	D	Measures will be taken as below: -Avoid night works -Usage of noise insulating devices (such as noise barriers, noise screens, wall, etc.) -Isolation of noise source, keep inside enclosure -Ensure noise emission follow local standards & regulations -Installation of vibration dampening devised and method (own foundation) Therefore, due to the implementation of the above-mentioned mitigation measures, the impact of noise pollution & vibration on the community will be considered insignificant.

Category	Impact items	EMP Evaluation		Results of Assessment
		Initial Investigation	EMP	
	Traffic Accidents	B-	D	Measures will be taken as below: -Adopt the best transport safety practices across all aspects of project operations with the goal of preventing traffic accidents & minimizing injuries suffered by the project personnel & the public. -Emphasize safety aspects among drivers & operators especially near schools, hospitals, monasteries -Establishing speed limits, speed reducing bumps -Training, licensing & certification of vehicle drivers and operators -Regular inspections, servicing & maintenance of vehicles & machineries -Limiting trip duration, arranging driver rotation -Avoiding dangerous routs to reduce the risk of accidents Therefore, due to the implementation of the above-mentioned mitigation measures, the impact of traffic on the community will be considered insignificant.
	Security	B-	D	Measures will be taken as below: -Establish site safety and security plan (security, CCTV) -Restrict access to the site (guards, visitor registration, fencing, notice boards, etc.) Therefore, due to the implementation of the above-mentioned mitigation measures, the impact of security on the community will be considered insignificant. Therefore, due to the implementation of the above-mentioned mitigation measures, the impact of security issues on the community will be considered insignificant.
Emergency Risk	Risk of Fire	B-	D	Measures will be taken as below: -Regular training & drill/exercises for the factory staff regarding the firefighting & other emergency response -Manufacturing areas, working places, storage building/silos, chemical, diesel, natural gas storage areas, must be implemented in compliance with relevant rules & regulations -Sufficient emergency escape exits, fire hydrants, fire extinguishers, fire hose-reels, etc. must be provided in certain quantities and distances -Sensitive smoke & fire alarms & detectors must be installed -Emergency preparedness and response plans must be established for any emergency situation and to remove all occupants away from hazards in the shortest time possible -Designation of assembly points -Formation of an ERT (Emergency Response Team) Therefore, due to the implementation of the above-mentioned mitigation measures, the impact of risk of fire in the factory will be considered insignificant.
	Risk of Flooding	B-	D	Measures will be taken as below: - To embank the factory area up to 7.65 m to satisfy the requirement for flood prevention by referring to the highest recorded flood level (6.5m MSL) -To construct adequate drainage system for events such as heavy rainfall, storms to drain & discharge out of the factory in an organized manner to avoid flooding & water-logging in the factory premises -Emergency preparedness and response plans for any emergency situation as in above Therefore, due to the implementation of the above-mentioned mitigation measures, the impact of flooding in the factory will be considered insignificant.
	Risk of road & river traffic accidents	B-	D	Measures will be taken as below: -Adopt the best transport safety practices across all aspects of project operations with the goal of preventing traffic accidents & minimizing injuries suffered by the project personnel & the public on both inland

Category	Impact items	EMP Evaluation		Results of Assessment
		Initial Investigation	EMP	
				roads & waterways -Emphasize safety aspects among drivers & boat/barge operators -Training, licensing & certification of vehicle drivers and boat/barge operators -Regular inspections, servicing & maintenance of vehicles & boat/barges -Limiting trip duration, arranging driver rotation -Avoiding dangerous routes to reduce the risk of accidents Therefore, due to the implementation of the above-mentioned mitigation measures, the impact of traffic in the factory operations will be considered insignificant.
	Risk of Earthquake	B-	D	Measures will be taken as below: -To consider & implement the design & construction of the factory to be earthquake resistant and to follow the relevant local building codes -Emergency preparedness & response plans for emergency situation as in above Therefore, due to the implementation of the above-mentioned mitigation measures, the impact of earthquake in the factory will be considered insignificant.

-Establish site safety and security plan (security, CCTV)

A+/-: Significant positive/negative impact is expected.
B+/-: Positive/negative impact is expected to some extent.
C+/-: Extent of positive/negative impact is unknown. (A further examination is needed, and the impact could be clarified as the study progresses)
D: No impact is expected (or) impacts are insignificant

Source: EMP Study Team

4. Environmental Management Plan (EMP)

Environmental Management Plan for the project will consist of two components:

1) Environmental mitigation and consideration measures which shall be taken in the course of the project implementation in operation stages. The measures have been examined based on project description and assessment results of environmental and social impacts.

2) Environmental monitoring plan to supervise/examine the implementation of proposed environmental mitigation and consideration measures and to investigate the surrounding environment under the influence of the project activities during construction and operation stages.

4.1 Environmental Mitigation and Consideration Measures

Environmental mitigation and consideration measures in operation stage for different aspects including pollution, natural environment, social environment, health and safety, emergency risk, and climate change are summarized in the following Table 12. Most of environmental management controls will be implemented by the project proponent.

Table 12 Environmental Mitigation and Consideration Measures

Category	Item	Environmental Mitigation and Consideration Measures	Implementer
Pollution	Air Pollution	o Covering skips and vessels, and stockpiles, especially outdoors o Using sprays, windbreaks, sweeping, sprinkling, and other stockpile management techniques to suppress dust. o Performing production in enclosed system. o Installation of ventilation control systems, cyclones, and fabric filters to remove dust from exhaust air, as necessary. o Discharging exhaust gas to stacks with sufficient height o Regular monitoring of ambient air quality (SO_2, NO_2, CO, PM_{10}, $PM_{2.5}$)	General manager, production manager, environmental manager
	Water Pollution	o Installation of oil separators/traps at drain inlets as necessary. o Regularly monitoring of storm water o Installation of septic tanks with sufficient treatment capacity o Regular maintenance of septic tanks and collection of sludge from the tanks by YCDC o Regular monitoring of drainage water at the outlets toward the main diversion channel and Yangon river o Regular monitoring of receiving surface water bodies. o Industrial wastewater, if any, would be collected, treated, and disposed of properly.	General manager, environmental manager
	Waste	o Establishing a comprehensive solid waste management system (waste collection with records, waste recycling, systematic waste storage condition, proper waste disposal system) o Segregating waste onsite and storing waste in separate containers in designated storage facilities before collecting by authorized waste management company.	General manager, production manager, environmental manager
		o Regular inspection shall be implemented for controlling and detecting any leak and spillage of materials and waste stored. o Spillage of materials will be collected and cleaned immediately; collected spilled materials will be reused or disposed of properly o Onsite recycling of waste will be done as much as possible o Non-recyclable and hazardous waste will be transported, treated, and disposed of properly by authorized waste management firms. o Monitoring of waste generated, recycled, and disposed	
	Hazardous Material	o Chemicals used for manufacturing and rice bran oil extraction (e.g. diesel oil, hexane solvent) will be properly stored, utilized and wastes disposed of accordingly. o A proper hazardous material management plan & procedures will be implemented	
	Soil Contamination	o Thick concrete flooring with adequate in-house gutter system o Proper management of hazardous chemicals o Provision of spill kits	
	Noise and Vibration	o Employees working near noisy equipment will be worn with aural protective equipment o Installing sound barriers and deflectors around the factories, if necessary. o Well maintenance of machines and equipment at the project site to avoid unnecessary noise production.	Production manager, safety manager
	Offensive Odor	o Examination of the operating processes using materials o Effective odor collection (duct work, suction gas volume o Maintenance & inspection (daily check, periodical inspection, odor measurement)	
Social Environment	Local Economy	oNo mitigation and consideration measures will be adopted	
	Water Use	o Reuse and recycle water as much as possible. o Improvement of design and technology for domestic and industrial activities to save usage water volume	Production manager

Category	Item	Environmental Mitigation and Consideration Measures	Implementer
Health and Safety	Occupational Health and Safety (OHS)	o Inspection on safety of building structure, clear passages to emergency exits, cleanliness of lavatories, and lighting systems shall be performed regularly to ensure all systems are operating properly as design. o Establishing well-equipped first aid stations which should be easily accessible and operates 24 hours per day. o Providing training on task, basic OHS, and hazardous material management for all employees. o Instituting safety signs and pavement marking for vehicle circulation, parking areas, site speed limits, inspecting vehicle conditions and establishing operating restrictions and regulations. o Hearing protection equipment shall be equipped for workers exposing to high-noise environment (>85 dB) or at night time. o PPE (e.g. head cover, gown, glove, mask) are equipped for all workers in the production areas. o Mechanical assists are used for reducing over-exertion and manual handling for carrying raw materials and products. o Minimize possibility that workers work closely to hot/cold sources (e.g. frying and steaming processes), provided adequate hydration and taken rest/break frequently. o Implementing periodic medical health check for employees and providing instructions on sanitation and hygiene. o Training and instructions on disease precaution (HIV, influenza) shall be conducted regularly.	General manager, production manager, environmental manager, safety manager
	Community Health and Safety (CHS)	o Developing and implementing a food safety impact and management program. o The factory will be designed and operated in a manner so that cleanliness of equipment, sufficient hygiene of staff, and food safety will be guaranteed. o Provide training on food safety issues and established procedure for hand washing, working attire (gown, slipper, gloves, hair coverage, mask) for all workers. o Providing trainings and certification for vehicle drivers (fork lift, truck) and regular maintenance of vehicles. o Regularly conducting sanitation measures to prevent larval & adult propagation for vector-borne diseases. o Training and instructions on disease precaution (HIV, influenza) shall be conducted regularly.	General manager, production manager, environmental manager, safety manager
Other	Emergency Risk	o Careful design of the project facilities with regard to flood risk, fire and explosion, leak and spillage of oil from storages and pipelines. o Mitigation measures for occupational and community health and safety, as above mentioned, will be conducted seriously, in accordance with IFC guidelines, to minimize occurrence of traffic accidents both on internal and external roads. Inspection on compliment with safety rules (fire safety, traffic safety) and oil spillage control will be implemented regularly. o Preparation of emergency response plan, including flood response plan, firefighting plan, accident rescue plan, oil spillage response plan o Emergency response plan will be trained and propagated to related personnel. o Drills of emergency response plan, including firefighting plan, oil spillage response plan, will be regularly implemented. o Establishment of emergency response team, such as firefight team, rescue team. o First aid station will be placed at the project site	General manager, production manager, environmental manager, safety manager

Source: EMP study team

4.2 Environmental Monitoring Plan

Environmental monitoring plan including monitoring items, location in operation stage is shown in the following Table 13. The project proponent will be in charge of monitoring and preparation of its results and will submit the monitoring report at each phase.

Table 13 Environmental Monitoring Plan

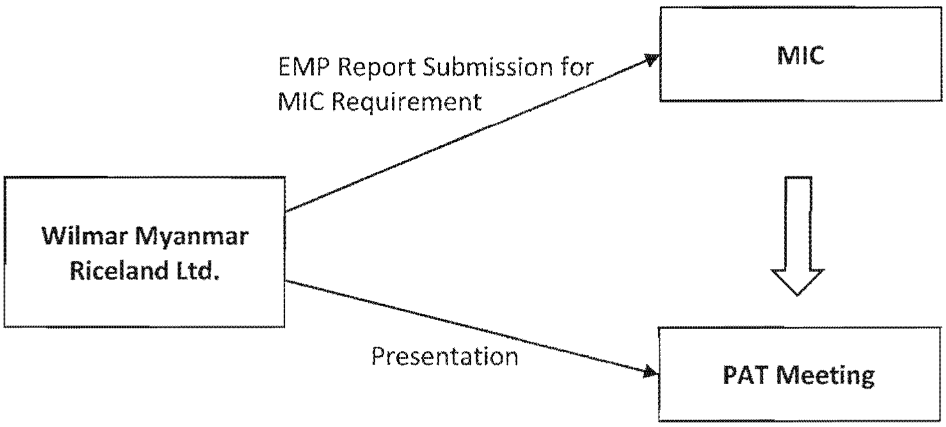
Category	Object of monitoring	Monitoring item	Location	Frequency	Remark
Common	Monitoring of mitigation measures	-	Project site	Once/month	
Air pollution	Ambient air quality nearby the project site	PM_{10}, $PM_{2.5}$, NO_2, SO_2, CO	Project site	Once/ 6 months (only after 3 years from starting operation of combustion facilities)	
Water Pollution	Water quality of storm water	pH, BOD, COD, TSS, Ammonium, Oil & grease	Outlet of drains (2 points)	Once/6 months (in rainy season)	Only in rainy season
	Water quality of effluent from septic tanks (if necessary)	BOD, TSS, Total Coliform	Outlet of septic tanks	Once/6 months (if any)	Checked if water quality of receiving surface water is
	Water quality of effluent from industrial wastewater treatment system	pH, Temperature, BOD, COD, TSS, Oil & grease, Total coliform, Total nitrogen, Total phosphorus	Discharging points (1 point / each discharge point)	Once/6 months	
	Water quality of receiving surface water (Yangon river, the main diversion channel)	pH, Temperature, BOD, COD, TSS, Oil & grease, Total coliform, Total nitrogen, Total phosphorus	2 points	Once/6 months	
Waste	Status of waste management	Amount of waste generated, recycled, and disposed	Project site	Once/month	
Noise and vibration	Noise and vibration level	L_{eq}, L_v	Project site (2 points)	Once/ 6 months (only after 3 years from starting operation)	
Water usage	Status of water consumption	Amount of water consumed	Project site	Once/month	
Occupational health and safety	Status of safety conditions	Record of safety conditions, Record of working accident Record of fatality rate	Project site	Once/3 months	
Community health and safety	Status of community safety conditions	Record of food safety incidents Record of disease infection	Project site	Once/3 months	

Category	Object of monitoring	Monitoring item	Location	Frequency	Remark
Emergency risk	Status of risk (flood, fire, accident, oil spillage)	Record of flood risk Record of fire and explosion Record of road and river traffic accident Record of oil spillage Record of response actions	Project site	Once/3 months	

Source: EMP Study Team

5. Institutional Arrangement

The institutional arrangement for environmental management of the project in Operation Stage is proposed in Figure 7.



Source: EMP study team

Figure 7 Institutional Arrangement for Environmental Management of the Project

6. Corporate Social Responsibility (CSR) Activities

The Project Proponent will have regular programs to contribute to social activities by using 1% of net profit on this project. The corporate philanthropy program of the Project Proponent's group has created trusted relationships with communities in China, Singapore, Malaysia, Indonesia and Myanmar surrounding where such group entities operate.

In Myanmar, the project proponent will focus on education and healthcare. The project proponent has so far organized a free Eye Disease Treatment program in November 2013 in Meiktila in efforts to restore sight to the under-privileged. This program provided complimentary eye disease diagnoses to 5,000 patients and corrective operations to 700 in addition to medicine, transportation and meals. In February 2014, the project proponent organized "Wilmar Eye Disease Treatment Donation Drive" in Htigyint Township and Kathar District. During the four-day event, needy patients were provided with eye examinations and minor to major eye operations. A total of 3,073 patients in Meiktilar were provided with eye examinations and 432 were operated on.

With regard to education, the project proponent intends to provide bursaries for under-privileged high school and middle school students living in the communities around the project site. In May 2017, the

project proponent provided school accessories such as table & chairs, grass cutters, televisions for education support programs, water dispensers, floor mats, cupboards, etc. and constructed a footbridge at Basic Education Primary School (2) Bant Bway Gone, Kyauktan township, Yangon division. Besides these, the project proponent donated edible oils to the said school as part of a donation drive organized by Nuns.

In addition, the project proponent is rolling out plans to donate purified drinking water in the Mandalay and Sagaing region.

The project proponent will continue to focus on education and livelihood programs in Myanmar in the coming years.

7. Conclusion and Recommendations

As to the results of the EMP study for Rice Mill of Wilmar Myanmar Riceland Ltd. in Thilawa Port Plots No. 20 & 21 & Triangle Land between Plots No. 21 & 22, the following items are found:

1) In terms of living environment, most of the impacts are controlled and limited in and around the project area. The key negative impacts such as emission of gas and dust, deterioration of water quality, solid waste pollution, generation of noise and vibration are expected. However, implementation of adequate mitigation and management plan will minimize these impacts. Some of the mitigation measures are fabricating/designing and usage of suitable hood/enclosures and bag filter for dust & PM emission, installation of waste water treatment system to treat industrial wastewater, solid wastes would be well treated by the solid waste management system, hazardous material such as the use of chemicals would be well mitigated by the hazardous material management system, noise and vibration levels estimated at surrounding receptors will comply with the standards, etc.
2) In terms of natural environment, there are no negative impacts from rice mill project itself because project site is already developed in the infrastructure development project. Proper mitigation measures, such as planting trees, vegetation and creating of public spaces will be implemented.
3) In terms of social environment, there are no negative impacts from the rice mill project itself because land acquisition and involuntary resettlement was completed. On the other hand, some positive impacts of the Project such as increase in job opportunity is expected.
4) In terms of health and safety, some impacts on occupational/community health and safety and increase in number of accidents are expected. However, sufficient mitigation and management plan, such as safe working conditions during operations and safety prevention measures be implemented to minimize the impacts.
5) In consideration of the result of the EMP study for the Project, regular environmental monitoring plans are proposed for the operation phase of the Project and the plans will be implemented accordingly to ensure the effectiveness of the mitigation measures.

It was confirmed that the environmental impacts of the Project were assessed and the Environmental Management Plan was formulated accordingly. The EMP was completed in accordance with the requirements of the EIA Procedures. Thus, it has been assessed that the Project's impacts will be minimized if the project proponent will follow the EMP accordingly.

Annex XIX

Fire Protection Plan

Fire Protection Plan

for

Building and Operating a modern integrated rice processing complex and Associated Buildings

at

Thilawa Port Area

Table of Contents

1.0 Introduction

This fire protection plan is designed for the prevention of fire breakouts in the project area (a modern integrated rice processing complex and associated buildings) and the setting up of procedures and best practices for the most efficient and safe means of extinguishing fires in an emergency.

2.0 Organization

This fire protection plan shall be carried out by Wilmar Riceland Limited in line with the guidelines, recommendations and best practices of the Wilmar Group for fire prevention and fighting of fire.

3.0 Objectives

This fire protection plan is established in the interest of the safety of personnel, the prevention of fire breakout, and the prevention / minimization of loss of life and property due to fire as regard the operations of the port terminal and operations of the sub lessees in their respective commercial activities.

4.0 Causes of Fire

The main causes of fire breakouts are as follows :

1. Acts of arson of all sorts by people with ill intention;
2. Poor installation of electrical systems and improper use of electricity;
3. Negligence in the handling and use of inflammable substances/chemicals and equipment, such as welding equipment, etc. that are capable of triggering fire breakouts;
4. Fire breakouts from surrounding properties such as neighbouring buildings, houses, fields, etc.; and

5. Accidents, in particular those involving improper use of inflammable chemicals and materials and manufacturing processes or use of equipment that are inherently a fire risk.

5.0 Prevention Procedures / Measures

The following procedures and measures shall be implemented for the prevention and fighting of fire :

1. Training and Education of Workforce
   - i. Properly trained in-house fire protection and fire-fighting teams with active and consistent periodic training in the practical and proper use of various types fire extinguishers, fire buckets, sand and related fire-fighting equipment;
   - ii. Periodic training exercises held in conjunction and cooperation with the local fire department;
   - iii. Training of staff for the operation/handling of equipment and storage facilities for equipment that are potential triggers of fire breakouts and inflammable materials and consumables;
   - iv. First aid training for staff; and
   - v. Adequate and prominent use of posters, signboards, etc. to instill good work practices/habits and awareness of the danger of fire.

2. Zoning restrictions with penalties and punishments for infringements :
   - i. Strict prohibition in the use of potential fire triggering devices on the premises such as matches, lighters, etc. in the vicinity or proximity of inflammable or combustible materials;
   - ii. Strict adherence to the proper use and handling of equipment, devices, inflammable materials such as welding equipment, fuel, etc.;

iii. Strict prohibition of smoking on the premises except in specific designated smoking zones;

iv. Secured and properly designed designated storage area and facilities for inflammable and explosive materials and consumables with procedures to restrict and control access by unauthorized personnel; and

v. Clear demarcation of zones by the adequate use of barriers and fencing and the use of adequately sized and prominent sign boards such as "No Smoking"

3. Standardized procedures for the use of facilities and equipment; and handling of inflammable materials and consumables

    i. Strict implementation of standard operating procedures for operation of equipment/appliances that are potential triggers of fire breakouts such as welding machine;

    ii. Strict implementation of standard operating procedures for secured operation of storage facilities for equipment that are potential triggers of fire breakouts and inflammable materials and consumables;

    iii. Strict implementation of standard operating procedures for the handling and use of inflammable materials and consumables; and

    iv. Strict implementation of standard operating procedures for the disposal of inflammable and/or hot wastes.

4. Preventive maintenance and work practices

    i. Maintenance of the firefighting systems (such as sprinkler, fire alarm, fire hydrants) and apparatus (such as fire-extinguishers) to ensure a state of readiness in accordance with or beyond the requirement of government regulations;

ii. Maintenance of electrical equipment and systems in accordance with manufacturers' recommendations and the requirement of government regulations;

iii. Strict housekeeping supplemented with clear and prominent signboards to facilitate easy, unobstructed and speedy access to first aid facilities, electrical systems, in particular electrical switches and fuses, firefighting systems and their ancillary equipment/apparatus, stores for inflammable materials, consumables and wastes;

iv. Strict implementation of standard protocol of switching off unattended or unused facilities such as equipment and lights, in particular after work hours;

v. Standard reporting protocol of a fire breakout : simultaneous and immediate reporting to the General Manager, Administration Manager and Security Officer who shall be responsible for contacting the Fire Department and other relevant government authorities; and

vi. Adequately located and prominent sign boards of contact parties' telephone numbers for the reporting of fire breakouts :

Fire Department

Police

Hospital

6.0 Building Teams

To build the Fire Fighting Team, Security Team and Rescue Team

1. Duties and Responsibilities of Fire Fighting Team

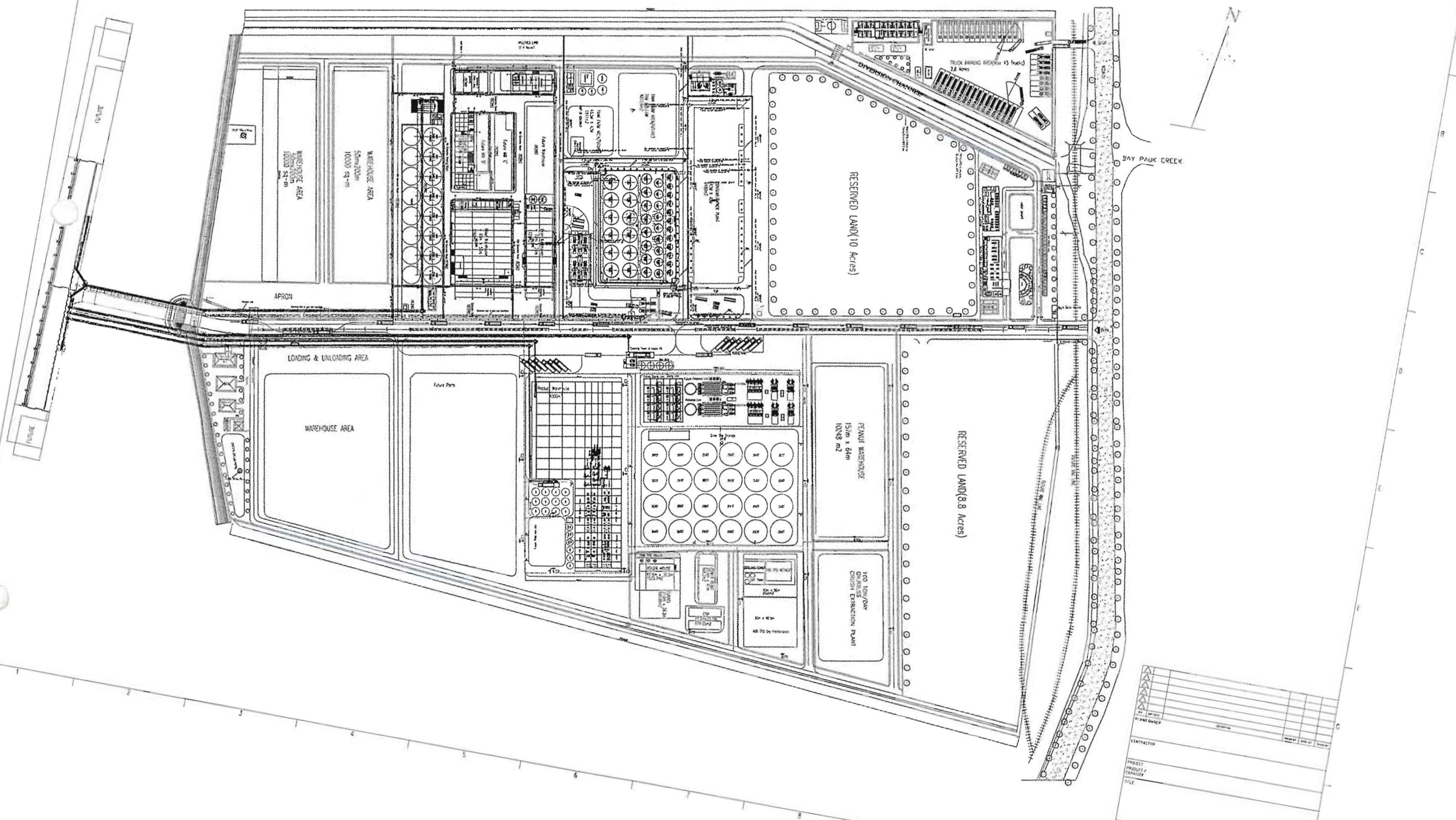
i. Knowledge and awareness of locations of electrical switches/fuses (power to be immediately cut off in the event of a fire), firefighting equipment and apparatus and to be always ready to control and extinguish a fire breakout; and

ii. Assist the fire brigade in fighting a fire.

2. Duties and Responsibilities of Security Team
   i. To ensure the safe evacuation of staff and the security of property;
   ii. To assist and coordinate with the Fire Fighting Team and Rescue Team; and
   iii. Traffic control.

3. Duties and Responsibilities of Rescue Team
   i. Removal of injured personnel to the designated location for evacuation;
   ii. Coordination and control of drivers for evacuation purposes; and
   iii. Render first aid while waiting for the arrival of medical staff.

Revision xx (22.3.2018)



Annex XX

Notarised and legalised copy of Certificate of Incorporation of WIH, copy of Certificate of Incorporation of Riceland (the "Certificate") together with its Letter of Undertaking to provide notarised and legalised Certificate and copy of Certificate of Incorporation of Staple Food

Embassy of the Republic of the Union of Myanmar
Singapore

No. 0491 / 37 24 / 2018
Date: 28 June 2018

Seen at the Embassy of the Republic of the Union of Myanmar in Singapore, and certified that the signature appearing at the foot of the annexed document is the signature of Low Hui Min, Director, Singapore Academy of Law, Republic of Singapore.

28/06/2018

(for) Ambassador
(San Sandar Win, First Secretary)

SINGAPORE ACADEMY OF LAW

AUTHENTICATION CERTIFICATE

I hereby certify that –

Janet Wee-Tan Mei Yin is a duly appointed Notary Public practising in Singapore, and that the signature appearing at the foot of the annexed Notarial Certificate dated 18th June 2018, is the signature of the said Janet Wee-Tan Mei Yin.

This Certificate is not valid if the seal of the Singapore Academy of Law is removed or altered in any way whatsoever. This Certificate does not authenticate or confirm the content of the Document attached to the annexed Notarial Certificate.

SINGAPORE ACADEMY OF LAW CERTIFICATION SEAL

Dated this 19th day of June 2018.

LOW HUI MIN
DIRECTOR
SINGAPORE ACADEMY OF LAW

18062260

Certified true signature

MINISTRY OF FOREIGN AFFAIRS SINGAPORE

LILIAN LOW 21 JUN 2018

1 Coleman Street, #08-06 The Adelphi, Singapore 179803
Tel: +65 6332 4388 | Fax: +65 6333 9747 | Website: http://www.sal.org.sg

REPUBLIC OF SINGAPORE
NOTARY PUBLIC

TO ALL WHOM THESE PRESENTS SHALL COME I, JANET WEE-TAN MEI YIN, NOTARY PUBLIC, duly authorised and appointed, practising in the Republic of Singapore do hereby certify that the photocopy of the Certificate Confirming Incorporation of Company of WILMAR INVESTMENT HOLDINGS PTE. LTD. annexed hereto is a true copy of the original issued by the Accounting and Corporate Regulatory Authority (ACRA) of Singapore.

IN FAITH AND TESTIMONY whereof I have hereunto subscribed my name and affixed my Seal of office at Singapore this 18th day of June 2018.

Janet Wee

NOTARY PUBLIC
SINGAPORE

NOTARY PUBLIC
Janet Wee-Tan
Mei Yin
N2018/0329
1 Apr 2018 – 31 Mar 2019
SINGAPORE

Company No: 201221334H

CERTIFICATE CONFIRMING INCORPORATION OF COMPANY

This is to confirm that WILMAR INVESTMENT HOLDINGS PTE. LTD. is incorporated under the Companies Act (Cap 50), on and from 28/08/2012 and that the company is a PRIVATE COMPANY LIMITED BY SHARES.

GIVEN UNDER MY HAND AND SEAL ON 29/08/2012.

CHUA SIEW YEN
ASSISTANT REGISTRAR
ACCOUNTING AND CORPORATE REGULATORY AUTHORITY (ACRA)
SINGAPORE

REGISTRAR OF COMPANIES & BUSINESSES
ACRA
ACCOUNTING AND CORPORATE REGULATORY AUTHORITY
SINGAPORE

087071

NOTARY PUBLIC
Janet Wee-Tan
Mei Yin
N2018/0329
1 Apr 2018 - 31 Mar. 2019
★ SINGAPORE ★

編號 2753158
No.

公司註冊處
COMPANIES REGISTRY

公司註冊證明書
CERTIFICATE OF INCORPORATION

***

本人謹此證明
I hereby certify that

RLG Holding Limited

於本日根據香港法例第622章《公司條例》
is this day incorporated in Hong Kong under the Companies Ordinance
在香港成立為法團，此公司是一間
(Chapter 622 of the Laws of Hong Kong), and that this company is
有限公司。
a limited company.

本證明書於二〇一八年十月九日發出。
Issued on 9 October 2018.

香港特別行政區公司註冊處處長鍾麗玲
Ms Ada L L CHUNG
Registrar of Companies
Hong Kong Special Administrative Region

註 Note:
公司名稱獲公司註冊處註冊，並不表示獲授予該公司名稱或其任何部分的商標權或任何其他知識產權。
Registration of a company name with the Companies Registry does not confer any trade mark rights or any other intellectual property rights in respect of the company name or any part thereof.

RLG Holding Limited

(Company Registration No. 2753158)
Suite 501 Tai Sang Bank Building, 130-132 Des Voeux Road, Central, Hong Kong

Date: ____________

The Chairman
Myanmar Investment Commission
No. 1, Thitsar Road, Yankin Township
Yangon Region, The Republic of the Union of Myanmar

Dear Sir,

LETTER OF UNDERTAKING TO PROVIDE NOTARISED AND LEGALISED CERTIFICATE OF INCOPORATION OF RLG HOLDING LIMITED (THE "CERTIFICATE")

RLG Holding Limited ("**RLG**") is a newly established entity holding 40% of the shares in Riceland International Limited of Thailand and will hold 40% of the shares in Wilmar Myanmar Riceland Limited, a company to be incorporated in the Republic of the Union of Myanmar.

RLG is required to have a bank account to proceed with the notarization by the notary public and legalization by the Myanmar Embassy in Hong Kong, of the Certificate. As RLG was established on 9 October 2018, we will need to take approximately 2 months to complete the bank account opening process. As such we are not able to provide the notarized and legalized Certificate at the time of application for an investment permit for Wilmar Myanmar Riceland Limited.

We, RLG Holding Limited hereby undertake to provide to you the notarized and legalized Certificate as soon as it is available.

Yours faithfully,

RLG Holding Limited

1150

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်အစိုးရ

စီမံကိန်းနှင့် ဘဏ္ဍာရေးဝန်ကြီးဌာန

ကုမ္ပဏီမှတ်ပုံတင်လက်မှတ်

အမှတ် ၁၀၀၈ / ၂၀၁၆–၂၀၁၇(ရက)

မြန်မာနိုင်ငံ ကုမ္ပဏီများ အက်ဥပဒေအရ စတေပယ် ဖုဒ် ဆက်ပလိုင်း ကုမ္ပဏီ လီမိတက် အား ပေးရန်တာဝန် ကန့်သတ်ထားသော လီမိတက် ကုမ္ပဏီအဖြစ် ၂၀၁၆ခုနှစ်၊ ဇွန် လ၊ ၁၇ ရက်နေ့တွင် မှတ်ပုံတင်ခွင့်ပြုလိုက်သည်။

ညွှန်ကြားရေးမှူးချုပ်(ကိုယ်စား)
(နီလာမူ ၊ ညွှန်ကြားရေးမှူး)

ရင်းနှီးမြှုပ်နှံမှုနှင့်ကုမ္ပဏီများညွှန်ကြားမှုဦးစီးဌာန

THE GOVERNMENT OF THE REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF PLANNING AND FINANCE

CERTIFICATE OF INCORPORATION

NO. 1008 of 2016-2017 (YGN)

I hereby certify that STAPLE FOOD SUPPLY COMPANY LIMITED is this day incorporated under the Myanmar Companies Act and that the company is Limited.

Given under my hand at Yangon this SEVENTEENTH day of JUNE TWO THOUSAND AND SIXTEEN.

For Director General
(Nilar Mu, Director)

Directorate of Investment and Company Administration

မှတ်ချက်။ (၁) ဤကုမ္ပဏီမှတ်ပုံတင်လက်မှတ်သည် (၁၇-၆-၂၀၁၆) မှ (၁၆-၆-၂၀၂၁) ရက်နေ့အထိ (၅)နှစ်သက်တမ်းအတွက်သာ ဖြစ်သည်။ သက်တမ်း မကုန်ဆုံးမီ (၃)လအလိုတွင် သက်တမ်းတိုးရန် ရင်းနှီးမြှုပ်နှံမှု နှင့် ကုမ္ပဏီများ ညွှန်ကြားမှုဦးစီးဌာနသို့ လျှောက်ထားရမည်။

(၂) ကုမ္ပဏီအနေဖြင့် သင်းဖွဲ့မှတ်တမ်းတွင် အဆိုပြုတင်ပြထားသော လုပ်ငန်းရည်ရွယ်ချက်များကိုသာ လုပ်ကိုင်ရမည်။

(၃) သင်းဖွဲ့မှတ်တမ်းပါ ရည်ရွယ်ချက်များသည် သက်ဆိုင်ရာ ပြည်ထောင်စုဝန်ကြီးဌာန၏ တည်ဆဲဥပဒေ၊ နည်းဥပဒေ၊ လုပ်ထုံးလုပ်နည်းများနှင့်အညီ ခွင့်ပြုချက်ရရှိမှသာ ဆောင်ရွက်ခွင့်ရှိမည်ဖြစ်ပါသည်။

(၄) လုပ်ငန်းရည်ရွယ်ချက် ပြောင်းလဲလုပ်ကိုင်လိုပါက ပြောင်းလဲလုပ်ကိုင်လိုသည့် လုပ်ငန်းရည်ရွယ်ချက်များအား သင်းဖွဲ့မှတ်တမ်းတွင် ပြင်ဆင်မှတ်ပုံတင်ရန်အတွက် ဒါရိုက်တာအဖွဲ့(BOD) ၏ အထူးအစည်းအဝေး ဆုံးဖြတ်ချက်မှတ်တမ်းနှင့်အတူ ရင်းနှီးမြှုပ်နှံမှုနှင့်ကုမ္ပဏီများ ညွှန်ကြားမှုဦးစီးဌာနသို့ လျှောက်ထားရမည်။

ညွှန်ကြားရေးမှူးချုပ်(ကိုယ်စား)

လာရောက်ထုတ်ယူသည့်ရက်စွဲ 20 JUN 2016 (သင်းသင်းမြတ်၊ ဒုတိယညွှန်ကြားရေးမှူး)

Annex XXI

Copies of National Registration Card or Passport of the representatives of the shareholders

中华人民共和国外交部请各国军政机关对持照人予以通行的便利和必要的协助。

The Ministry of Foreign Affairs of the People's Republic of China requests all civil and military authorities of foreign countries to allow the bearer of this passport to pass freely and afford assistance in case of need.

中华人民共和国 PEOPLE'S REPUBLIC OF CHINA

护照
PASSPORT

类型/Type
P

国家码/Country Code
CHN

护照号码/Passport No.
EA5020349

姓名/Name
孙德海
SUN, DEHAI



性别/Sex
男/M

国籍/Nationality
中国/CHINESE

出生日期/Date of birth
20 MAY 1976

出生地点/Place of birth
黑龙江/HEILONGJIANG

签发日期/Date of issue
28 8月/AUG 2017

签发地点/Place of issue
仰光
YANGON

有效期至/Date of expiry
27 8月/AUG 2027

签发机关/Authority
中国驻缅甸大使馆
EMBASSY OF P.R.CHINA
IN MYANMAR

持照人签名/Bearer's signature
孙德海

1060027913

POCHNSUN<<DEHAI<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

EA50203491CHN7605208M2708274MLOPLFMCLKKDA954

3

หนังสือเดินทางนี้มี 66 หน้า
This passport contains 66 pages

FEE PAID

Passport No.
AA7036761

รายการบันทึก
ENDORSEMENTS

Endorsement No. 18906/B/59

The holder has previously travelled on Passport No. B 663115 issued by Ministry of Foreign Affairs at Bangkok on 11 JUN 2012 which has been cancelled and returned to the holder, ~~the visas duly affixed therein remain valid.~~

Director of Passport Division

Done at BANGKOK on 25 AUG 2016

Thailand

PASSPORT
หนังสือเดินทาง



Type / ประเภท: P
Country Code / รหัสประเทศ: THA
Passport No. / หนังสือเดินทางเลขที่: AA7036761

Surname / นามสกุล: SRIPRASERT

Title / Name / คำนำหน้าชื่อ / ชื่อ: MR. VICHAI

Name in Thai / ชื่อภาษาไทย: นาย วิชัย ศรีประเสริฐ

Nationality / สัญชาติ: THAI
Date of birth / วันเกิด: 31 JAN 1943
Identification No. / เลขประจำตัวประชาชน: 3100400334481

Sex / เพศ: M
Height / ส่วนสูง: 1.84
Place of birth / สถานที่เกิด: PHRA NAKHON SI AYUTTHAYA

Date of issue / วันที่ออก: 25 AUG 2016
Issuing Authority / ออกให้โดย: MINISTRY OF FOREIGN AFFAIRS

Date of expiry / วันที่หมดอายุ: 24 AUG 2021
Holder's Signature / ลายมือชื่อผู้ถือหนังสือเดินทาง

2

P<THASRIPRASERT<<VICHAI<<<<<<<<<<<<<<<<<<<<<<

AA70367610THA4301314M2108243100400334481<32

နိုင်ငံသားစိစစ်ရေးကတ်ပြား



အမှတ် ၁၂/ ပဇတ(နိုင်) [illegible]

ရက်စွဲ [illegible]

အမည် [illegible]

အဖအမည် [illegible]

မွေးသက္ကရာဇ် [illegible]

လူမျိုး/ဘာသာ [illegible]

အရပ် ၅' ၆" သွေးအုပ်စု [illegible]

ထင်ရှားသည့်အမှတ်အသား [illegible]

ထုတ်ပေးသူလက်မှတ်

အမည် [illegible]

ရာထူး [illegible]

အမှတ်စဉ် 0421853

KYN . [illegible]

[illegible] ကတ်ပြားအမှတ် [illegible]



အလုပ်အကိုင် [illegible]

နေရပ်လိပ်စာ [illegible]

ကိုင်ဆောင်သူလက်မှတ်

[illegible]

၂။ [illegible]

၃။ [illegible] (—) [illegible]

Annex XXII

Business Profiles of Corporate Shareholders

Business Profile

Registration No.	201221334H	
Company Name	Wilmar Investment Holdings Pte. Ltd.	
Incorporation Date	28 August 2012	
Registered Office Address	56 Neil Road, Singapore 088830	
Company Type	Private Company Limited by Shares	
Status	Live Company	
Principal Activities	Investment holding	
Authorised Share Capital	Not Applicable	
Issued Share Capital	US$1,000 divided into 1,000 shares	
Paid-Up Capital	US$1,000	
Shareholder	**Shareholder Details**	**Number of Shares held**
	Wilmar International Limited Company No. 199904785Z	1,000 shares
Auditor	Ernst & Young LLP	
Directors	(1) Kuok Khoon Hong Passport no. E6111951C	Appointed on 10 April 2013
	(2) Pua Seck Guan Passport No. E6893571E	Appointed on 17 December 2016
	(3) Thomas Joseph Lim Kim Guan Passport No. K0687794D	Appointed on 1 January 2016
	(4) Teo La-Mei Passport No. K0063721G	Appointed on 31 May 2016
	(5) Sun Dehai Passport No. EA5020349	Appointed on 28 June 2018

Business Profile

Registration No.	2753158		
Company Name	RLG Holding Limited		
Incorporation Date	9 October 2018		
Registered Office Address	Suite 501, Tai Sang Bank Building, 130-132 Des Voeux Road Central, Hong Kong		
Company Type	Private, limited liability company		
Status	Active		
Principal Activities	Holding Company		
Authorised Share Capital	HKD 200 divided into 200 shares		
Issued Share Capital	HKD 200 divided into 200 shares		
Paid-Up Capital	HKD 200		
Shareholders	**Shareholders Details**	**Number of Shares held**	
	(1) Vichai Sriprasert Passport: AA7036761	100 shares	
	(2) Rosarin Sriprasert Passport: AA9164777	100 shares	
Managing Director	Vichai Sriprasert Passport No: AA7036761	Appointed on October 9, 2018	
Directors	(1) Vichai Sriprasert Passport No: AA7036761	Appointed on October 9, 2018	
	(2) Rosarin Sriprasert Passport No: AA9164777	Appointed on October 9, 2018	

Business Profile

Registration No.	1008/2016-2017 (YGN)	
Company Name	Staple Food Supply Company Limited.	
Incorporation Date	17-6-2016	
Registered Office Address	No. 36, Thein Phyu Road Pazundaung Township, Yangon, Myanmar.	
Company Type	Private Company Limited.	
Status	Fresh	
Principal Activities	Investment and trading	
Authorised Share Capital	5,000,000,000 Kyats divided into 500,000 shares	
Issued Share Capital	1,000,000,000 Kyats divided into 100,000 shares	
Paid-Up Capital	1,000,000,000 Kyats	
Shareholders	**Shareholders Details**	**Number of Shares held**
	(1) U Myint Maw NRC: 12/PA ZA TA(NAING) 023691	15,000 shares
	(2) U Ne Lin NRC: 12/PA ZA TA(NAING) 031498	42,500 shares
	(3) U Kyaw Thar Oo NRC: 12/LA MA TA(NAING) 001558	42,500 shares
Auditor	Royal Treasure Audit Firm	
Managing Director	U Myint Maw NRC: 12/PA ZA TA(NAING) 023691	Appointed on 24-6-2016
Directors	U Ne Lin NRC: 12/PA ZA TA(NAING) 031498	Appointed on 24-6-2016
	U Kyaw Thar Oo NRC: 12/LA MA TA(NAING) 001558	Appointed on 24-6-2016

Annex XXIII

Summary of Proposed Investment

Annex XXIII

Summary of Proposed Investment (Rule 38)

1. Please describe any other person who has a significant indirect interest in the investment.

(a) Please describe an Enterprise or individual who are entitled to possess more than 10% of the profit distribution:

(1) Name

Wilmar International Limited

(2) Address

56 Neil Road, Singapore 088830

(3) Company Registration No.

199904785Z

(1) Name

Vichai Sriprasert

(2) Address

901/15-17 Moo 15
Bangna-Trad Road
Bangplee
Samutprakarn 10540
Thailand

(3) Company Registration No.

Passport No. AA7036761

(1) Name

Rosarin Sriprasert

(2) Address

901/15-17 Moo 15
Bangna-Trad Road
Bangplee
Samutprakarn 10540
Thailand

(3) Company Registration No.

Passport No. AA9164777

(b) If there is directly participated Subsidiary in carrying out the proposed investment, please describe the name of that companies;

(1) *Not Applicable*

2. The principal location or locations of the investment

Thilawa Port Area plots no. 20 and 21 (of 74.1308 acres) and the parcel of land of 26 acres adjoining Thilawa Port Area plots no. 21 and 22, located at Yangon Region, Thilawa Port Area

3. A description of the sector in which the investment is to be made and the activities and operations to be conducted:

Production, Sales and Distribution of Rice and Rice related Products (broken rice, rice flour, rice bran, rice bran oil, rice husk)

4. The proposed amount of the investment (in Kyat and US$)

(a) Amount /percentage of local capital *USD 6.36million/Kyats 10,010,640,000*
to be contributed

(b) Amount /percentage of foreign capital *USD 25.44 million/Kyats 40,042,560,000*
to be brought in
*Loan to be taken onshore (in equivalent Kyats) *USD 74.20 million /Kyats 116,790,800,000*

Total ***USD 106million/ Kyats 166,844,000,000***

Exchange Rate: USD 1 = Kyat1,574

5. A description of the plan for the implementation of the investment including expected tameable:

(a) Construction or Preparatory Period (Describe MM/YY)

Within 24 months from the later of (a) the date of issuance of the MIC Permit; or (b) the date when all other relevant licenses from the relevant

governmental department and/ or governmental organization to commence construction as per Rule 139 of Myanmar Investment Rules are obtained

(b) Commercial Operation Date (Describe MM/YY)

90 days after the completion of the Construction Period as per Rule 146 (b) and/or (c) of the Myanmar Investment Rules.

Notification for the completion of Construction Period and Commencement of Commercial Operation will be given to the MIC within 30 days after the end of the Construction Period as per Rule 140 and Rule 145 of the Myanmar Investment Rules.

6. Number of employees to be appointed:

(a)	**Local**	***(190) number (87.96) %***
(b)	**Foreign (Expert/Technicians)**	***(26) number (12.04) %***

7. Please specify the detailed list of foreign capital (Capital in-Cash and Capital in- Kinds) in Kyat and US$:

(a) Capital in-cash to be brought in- ***USD 31.80 million/Kyats50,053,200,000***

Exchange Rate: USD 1 = Kyat1,574

(b) Capital in-kind to be brought in- ***Not Applicable***

Note: The investor may request the Commission to refrain from publishing commercial-in-confidential information of its investment.

We request the Commission to refrain from publishing commercial-in-confidential information of our investment.